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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/535,500

05/26/2006

Anne Mette Buhl Hertz

55320.001041

7327

21967

7590

11/13/2007

HUNTON & WILLIAMS LLP  
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EXAMINER

GUSSOW, ANNE

ART UNIT

PAPER NUMBER

1643

MAIL DATE

DELIVERY MODE

11/13/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	Application No. 10/535,500	Applicant(s) HERTZ ET AL.	
	Examiner Anne M. Gussow	Art Unit 1643	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 20 September 2007.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 43-60 is/are pending in the application.
- 4a) Of the above claim(s) 48, 51, 52 and 55-60 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 43-47, 49, 50, 53 and 54 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 May 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>11/18/05, 2/09/06</u> . | 6) <input checked="" type="checkbox"/> Other: <u>Sequence alignment</u> .               |

### DETAILED ACTION

1. Applicant's election with traverse of Group I in the reply filed on September 20, 2007 is acknowledged. The traversal is on the ground(s) that the restriction requirement does not conform to the PCT unity of invention rules in that lack of unity was not found in the PCT application and the instant application is a national stage entry of the PCT application. This is not found persuasive because while the national and regional Offices may not make further requirements beyond those of the Treaty and Regulations in respect of matters of form and contents, they are not bound by the Treaty to follow the results of any international search or examination which has been performed when the application is examined during the national or regional phase (see International Search and Preliminary Examination Guidelines page 15 paragraph 1.12). Therefore, for the reasons presented in the previous office action, the restriction requirement is still deemed proper and is therefore made FINAL.

2. Applicant's election with traverse of SEQ ID No. 11 in the reply filed on September 20, 2007 is acknowledged. The traversal is on the ground(s) that SEQ ID Nos. 12-18 correspond to single AMB1/CLLU1 exon sequences which never exist as "single transcripts" and that any transcript that includes the sequence from the start of the AMB1/CLLU1 primary transcript can be used for B-CLL diagnostics. Applicant has requested examination of additional species should SEQ ID No. 11 be found allowable,

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for the reasons set forth below SEQ ID No. 11 has not be deemed allowable and no additional species have been searched at this time.

3. Claims 48, 51, 52, and 55-60 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on September 20, 2007.

4. Claims 43-47, 49, 50, 53, and 54 are under examination to the extent that they relate to SEQ ID No. 11.

***Information Disclosure Statement***

5. The information disclosure statements (IDS) submitted on November 18, 2005 and February 9, 2006 have been fully considered by the examiner and an initialed copy of the IDS is included with the mailing of this Office Action.

6. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

***Specification***

7. The disclosure is objected to because of the following informalities:

a.) The specification contains typographical errors, for example on page 32 line 35 "indtuctions" should read "instructions"

b.) The specification contains sequences which are not identified by SEQ ID No., for example on page 32 lines 11-12 and page 39 line 12. The sequences should be represented in the sequence listing and referred to by SEQ ID No. in the specification.

Appropriate correction is required for all errors throughout.

8. The use of the trademarks RNeasy® and SMART™ RACE have been noted in this application. They should be capitalized wherever they appear and be accompanied by the generic terminology.

Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks.

The trademark symbols have not been included for the trademarks. Appropriate correction is required for all trademarks throughout.

***Claim Rejections - 35 USC § 112***

9. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the

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art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

10. Claims 43-47, 49, 50, 53, and 54 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a method for diagnosing a subtype of B-cell chronic lymphocytic leukemia (B-CLL) with poor prognosis in an individual by detecting the presence of the exon 2/exon 3 splice junction in a AMB-1 transcript, does not reasonably provide enablement for a method for diagnosing a subtype of B-CLL with poor prognosis in an individual by detecting the presence of just any expression product within SEQ ID No. 12-18. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make or used the invention commensurate in scope with these claims.

Factors to be considered in determining whether a disclosure meets the enablement requirement of 35 USC 112, first paragraph, have been described by the court in *In re Wands*, 8 USPQ2d 1400 (CA FC 1988).

Wands states on page 1404,

"Factors to be considered in determining whether a disclosure would require undue experimentation have been summarized by the board in *Ex parte Forman*. They include (1) the quantity of experimentation necessary, (2) the amount of direction or guidance presented, (3) the presence or absence of working examples, (4) the nature of the invention, (5) the state of the prior art, (6) the relative skill of those in the art, (7) the predictability or unpredictability of the art, and (8) the breadth of the claims."

The claims are broadly drawn to a method for establishing a diagnosis of a subtype of B-cell chronic lymphocytic leukemia (B-CLL) in an individual comprising detecting the presence or absence of at least one expression product, wherein said at least one expression product comprises a nucleotide sequence selected from the group

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consisting of SEQ ID No: 12, SEQ ID No: 13, SEQ ID No: 14, SEQ ID No: 15, SEQ ID No: 16, SEQ ID No: 17 and SEQ ID No: 18 in a biological sample isolated from the individual. A method for establishing the prognosis of a subtype of B-CLL in a individual comprising detecting the presence or absence of at least one expression product, wherein said at least one expression product comprises a nucleotide sequence selected from the group consisting of SEQ ID No: 12, SEQ ID No: 13, SEQ ID No: 14, SEQ ID No: 15, SEQ ID No: 16, SEQ ID No: 17 and SEQ ID No: 18 in a biological sample isolated from the individual. A method for determining whether an individual has a B-CLL sub-type with poor prognosis, the method comprising determining the level of an expression product which comprises a nucleotide sequence selected from the group consisting of SEQ ID No: 12, SEQ ID No: 13, SEQ ID No: 14, SEQ ID No: 15, SEQ ID No: 16, SEQ ID No: 17 and SEQ ID No: 18 of said individual, and indicating the individual as having a B-CLL sub-type with poor prognosis if the level of the expression product is at or beyond a discriminating value and indicating the individual as not having a B-CLL sub-type with poor prognosis if the level of the expression product is not at or beyond the discriminating value, the discriminating value being a value which has been determined by measuring the level of the expression product which comprises a nucleotide sequence selected from the group consisting of SEQ ID No: 12, SEQ ID No: 13, SEQ ID No: 14, SEQ ID No: 15, SEQ ID No: 16, SEQ ID No: 17 and SEQ ID No: 18 in both a healthy control population and a population with known B-CLL sub-type with poor prognosis, thereby determining said discriminating value which identifies the B-CLL sub-type population having a poor prognosis, wherein

the individual is a member of an unselected population, wherein the individual is a member of a population

already identified as having a B-CLL sub-type with a poor prognosis, wherein the expression product is a transcriptional product, wherein the at least one transcriptional product is selected from the group consisting of SEQ ID No 2, SEQ ID No 4, SEQ ID No 6, SEQ ID No 7, SEQ ID No 8, SEQ ID No 9, SEQ ID No 10 and SEQ ID No 11, wherein said at least one transcriptional product comprises a nucleotide sequence spanning the junction between Exon-2 and Exon-3, wherein the nucleotide sequence spanning the junction between Exon-2 and Exon-3 is the last 20 nucleotides of the 3'-end of SEQ ID No: 15 and the first 20 nucleotides of the 5'-end of SEQ ID No: 16.

The specification discloses expression of AMB-1 in B-CLL patients without Ig VH mutations. The specification discloses mutation of the Ig VH gene is associated with a better prognosis in B-CLL patients. The specification discloses detection of AMB-1 transcripts by detecting the splice junction between exon 2 and exon 3 of the full length AMB-1 transcript (SEQ ID No. 5). The specification does not disclose detection of each of the AMB-1 transcripts in B-CLL patients with poor prognosis. The specification does not disclose the detection of AMB-1 transcript regions other than the exon 2 and exon 3 splice junction as associated with a poor prognosis of B-CLL.

Studies identifying molecular markers to distinguish between aggressive and non-aggressive forms of chronic lymphocytic leukemia were reviewed in Shanafelt, et al. (Annals of Internal Medicine, 2006. Vol. 145, pages 435-447). Shanafelt, et al. teach cytogenic abnormalities including 13q-, trisomy 12, 11q-, and 17p- with decreased



survival time for patients having 17p- and 11q- mutations. Rosenwald, et al. (Journal of Experimental Medicine, 2001. Vol. 194, pages 1639-1647) teach a common gene expression "signature" in CLL patients that is irrespective of Ig mutational status and suggest combinations of genes including Ig VH and ZAP-70 as diagnostic markers for CLL. This is contradicted by Shanafelt, et al. who teach 20-30% of patients do not have a correlation between Ig VH mutation and ZAP-70 expression and 30-40% of patients do not have a correlation between CD38 expression and mutation status.

There is insufficient evidence or nexus that would lead the skilled artisan to predict the ability to diagnose a poor prognosis of B-CLL by detecting just any AMB-1 transcript. The specification does not teach detection of transcript regions associated with B-CLL prognosis other than the exon 2 and exon 3 splice junction. Additionally, alignment of the sequences in SEQ ID Nos. 12-18 with SEQ ID No. 11 did not produce a consensus sequence in SEQ ID No. 11 that is common with SEQ ID Nos. 12-18 (see sequence alignment). Therefore, detection of even a portion of SEQ ID No. 11 would not necessarily detect SEQ ID Nos. 12-18 and detection of a region other than the splice junction between exon 2 and exon 3 in SEQ ID No. 11 would not be predictive of a poor prognosis in B-CLL patients.

In view of the lack of the predictability of the art to which the invention pertains undue experimentation would be required to practice the claimed methods in a reasonable expectation of success, absent a specific and detailed description in applicant's specification of how to effectively practice the claimed methods and absent working examples providing evidence which is reasonably predictive that the claimed

methods are effective for determining a poor prognosis of B-CLL commensurate in scope with the claimed invention.

### ***Conclusion***

11. No claims are allowed.

12. Claims 43-47, 49, 50, 53, and 54 are free of the prior art. The closest prior art is Oscier, et al. (Blood, 2002. Vol. 100, pages 1177-1184, as cited on the IDS).

Oscier, et al. teach a method of determining the prognosis of B-CLL in patients by detecting a mutation in the IGVH gene. Oscier, et al. do not teach nor reasonably suggest determining a poor prognosis of B-CLL patients by detecting the sequence of SEQ ID No. 11.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne M. Gussow whose telephone number is (571) 272-6047. The examiner can normally be reached on Monday - Friday 8:30 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms can be reached on (571) 272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Anne M. Gussow

November 7, 2007



LARRY R. HELMS, PH.D.  
SUPERVISORY PATENT EXAMINER

10535500-11 vs\_10535500a11na.txt

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OM nucleic - nucleic search, using sw model

Run on: October 30, 2007, 14:45:28 ; Search time 159 Seconds  
(without alignments)  
17.371 Million cell updates/sec

Title: us-10-535-500a-11  
Perfect score: 9458  
Sequence: 1 atttgattgtggaacttag.....aatttatcaataaagccag 9458

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 0.5

Searched: 42 seqs, 146011 residues

Total number of hits satisfying chosen parameters: 84

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : US10535500a.seq:\*

pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	9458	100.0	19959	1	US-10-535-500A-1
3	9458	100.0	89650	1	US-10-535-500A-5
4	4649.5	49.2	6209	1	US-10-535-500A-4
5	2333.5	24.7	3893	1	US-10-535-500A-2
6	1956	20.7	2817	1	US-10-535-500A-7
7	1955	20.7	1955	1	US-10-535-500A-10
8	1955	20.7	1955	1	US-10-535-500A-16
9	1955	20.7	2260	1	US-10-535-500A-6
10	557	5.9	557	1	US-10-535-500A-15
11	366	3.9	366	1	US-10-535-500A-18
12	307	3.2	307	1	US-10-535-500A-14
13	307	3.2	1870	1	US-10-535-500A-8
14	305	3.2	305	1	US-10-535-500A-13
15	207.8	2.2	89850	1	US-10-535-500A-3
16	182.7	1.5	19959	1	US-10-535-500A-1
17	50.8	0.5	1970	1	US-10-535-500A-8
18	50.8	0.5	1989	1	US-10-535-500A-9
19	44.1	0.5	6209	1	US-10-535-500A-4
20	44.1	0.5	9458	1	US-10-535-500A-11
21	34	0.4	1955	1	US-10-535-500A-10
22	34	0.4	1955	1	US-10-535-500A-16
23	34	0.4	2260	1	US-10-535-500A-6

Page 1

c	24	34	0.4	2817	1	US-10-535-500A-7	Sequence 7, Appli
c	25	34	0.4	3893	1	US-10-535-500A-2	Sequence 2, Appli
c	26	29.4	0.3	366	1	US-10-535-500A-18	Sequence 18, Appli
c	27	25.2	0.3	1989	1	US-10-535-500A-9	Sequence 9, Appli
c	28	25	0.3	25	1	US-10-535-500A-43	Sequence 43, Appli
c	29	24.2	0.3	557	1	US-10-535-500A-15	Sequence 15, Appli
c	30	23.2	0.2	1253	1	US-10-535-500A-17	Sequence 17, Appli
c	31	22	0.2	22	1	US-10-535-500A-32	Sequence 32, Appli
c	32	21.2	0.2	305	1	US-10-535-500A-13	Sequence 13, Appli
c	33	21.2	0.2	307	1	US-10-535-500A-14	Sequence 14, Appli
c	34	21	0.2	21	1	US-10-535-500A-20	Sequence 20, Appli
c	35	21	0.2	21	1	US-10-535-500A-21	Sequence 21, Appli
c	36	21	0.2	21	1	US-10-535-500A-22	Sequence 22, Appli
c	37	21	0.2	21	1	US-10-535-500A-23	Sequence 23, Appli
c	38	21	0.2	21	1	US-10-535-500A-25	Sequence 25, Appli
c	39	21	0.2	21	1	US-10-535-500A-26	Sequence 26, Appli
c	40	21	0.2	21	1	US-10-535-500A-30	Sequence 30, Appli
c	41	21	0.2	21	1	US-10-535-500A-31	Sequence 31, Appli
c	42	20.6	0.2	1253	1	US-10-535-500A-17	Sequence 17, Appli
c	43	20	0.2	20	1	US-10-535-500A-41	Sequence 41, Appli
c	44	20	0.2	20	1	US-10-535-500A-42	Sequence 42, Appli
c	45	20	0.2	20	1	US-10-535-500A-42	Sequence 42, Appli

#### ALIGNMENTS

RESULT 1  
US-10-535-500A-11  
: Sequence 11, Application US/10535500A  
: GENERAL INFORMATION:  
: APPLICANT: Rigshospitalet  
: APPLICANT: Henrik Leffers  
: APPLICANT: Anne Mette Buhl Hertz  
: APPLICANT: Jorgen Kjems  
: TITLE OF INVENTION: Methods and kits for diagnosing and  
: treating B-cell Chronic lymphocytic leukemia (B-CLL)  
: FILE REFERENCE: P34546US01  
: CURRENT APPLICATION NUMBER: US/10/535,500A  
: PRIOR FILING DATE: 2005-05-18  
: PRIOR APPLICATION NUMBER: DK/PA 200201792  
: NUMBER OF SEQ ID NOS: 43  
: SOFTWARE: FastSeq for Windows version 4.0  
: SEQ ID NO 11  
: LENGTH: 9458  
: TYPE: DNA  
: ORGANISM: Homo sapiens  
: US-10-535-500A-11

Query Match 100.0%; Score 9458; DB 1; Length 9458;  
Best Local Similarity 100.0%; Pred. No. 33e-86;  
Matches 9458; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 1 ATTGGAATGTGTAAGCCTAGTAAAGCAGACGGCTCTCACCAATAAGGCGAGGCATATCC 60  
QY 61 AATCTGTGGAAGCTTGAATAAAACAAAAGAGGAGGAAAAATTTGCTTTCTTCTCT 120  
Db 61 AATCTGTGGAAGCTTGAATAAAACAAAAGAGGAGGAAAAATTTGCTTTCTTCTCT 120  
QY 121 TGATCTAGTATATCATCTTCTCCCTTGTGATGTGATGGGCGCTTCAGACTTAAACCA 180

Page 2

[illegible][illegible]

10535500-11\_vs\_10535500a11na.txt

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2101	Db	TTTTTTTAAAGAGGAGAAACTGAGCTCTCAAAGTTTAAATATCTAACCCAAAGTAAAGACTGCTAG	2160
2161	QY	TCACCTTAGGCTATTAACTCAGCGAGTCTAACTCAGGTATAATAACATATTGCTACTGTT	2220
2161	Db	TTTTTTTCACCTTAGGCTATTAACTCAGCGAGTCTAACTCAGGTATAATAACATATTGCTACTGTT	2220
2221	QY	TGCAGCTTTGACTATGSCCTGAATTATAACGTCACTGCTATCTAACTAAAAGACTAAGGAA	2280
2221	Db	TTTTTTTGCAGCTTTGACTATGSCCTGAATTATAACGTCACTGCTATCTAACTAAAAGACTAAGGAA	2280
2281	QY	ATAAAAAGCCCATAGGCTCAATTTTCATAAAGGAGAGAAAATACTCGGGGAAAAGTGTAT	2340
2281	Db	TTTTTTTATAAAAAGCCCATAGGCTCAATTTTCATAAAGGAGAGAAAATACTCGGGGAAAAGTGTAT	2340
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2401	QY	AAAAAAAAAAAAAAAAAAAAAGGAAGGTTAAAAAAGAGGAGGAGGCTCTGAGAAT	2460
2401	Db	TTTTTTTAAAAAAAAAAAAAAAAAAAAAGGAAGGTTAAAAAAGAGGAGGAGGCTCTGAGAAT	2460
2461	QY	AGAAATATCAGAGAAGGAAATAAAGGAGGCTGAGAGTAAATCTCTTTTACGATTCAGA	2520
2461	Db	TTTTTTTAGAAATATCAGAGAAGGAAATAAAGGAGGCTGAGAGTAAATCTCTTTTACGATTCAGA	2520
2521	QY	TCCACAGATTCACAAATCACATTTCTTTTTTACCACTAAGGAGAAAATAACACTTGA	2580
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2581	QY	CCTAACATTCATTGGAGTTAGCTTAAGGATGCTAGAAAACTATGTTGCAGTGTTTGC	2640
2581	Db	TTTTTTCTAACATTCATTGGAGTTAGCTTAAGGATGCTAGAAAACTATGTTGCAGTGTTTGC	2640
2641	QY	TCTAATTTCTCAGGAATAGAGAAAAGTGACAAAAGATCAGAGAGAGAAAGAGGAAA	2700
2641	Db	TTTTTTTCTAATTTCTCAGGAATAGAGAAAAGTGACAAAAGATCAGAGAGAGAAAGAGGAAA	2700
2701	QY	CTATCAGAAAAATACAGAAITGGAGTAGGATATAACATATTTGGGTTGAAGGTAAAAATTT	2760
2701	Db	TTTTTTCTATCAGAAAAATACAGAAITGGAGTAGGATATAACATATTTGGGTTGAAGGTAAAAATTT	2760
2761	QY	TATATTGTAATCTTAAGTATCTTGCTACTTCAGTTGGTCCCTGGAAACAGCAGCATCAGA	2820
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2821	Db	TTTTTTTATCTGCCGAGGGCTGTTTAAAAAGGAGAACTCAGGTCCCATCTCCAGACTCACTGAATC	2880
2881	QY	AGATATAAATACTGACAAATGCCCCGGGATTCATATGCACAGTAGAGCTGGCGAAGTT	2940
2881	Db	TTTTTTTAGAATATAAATACTGACAAATGCCCCGGGATTCATATGCACAGTAGAGCTGGCGAAGTT	2940
2941	QY	CCATTGTAGCCTGTATGTTTTTCTGCAACTTAGTATTTCTGAGTTTTCCTCAAGGAGAA	3000

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3001	QY	AACCCAGGCTTAGCTCTGGGAGACTGTGTTTCTCTTTACTTACTAGTCGATGACT	3060
3001	DB		
3001	DB	AACCCAGGCTTAGCTCTGGGAGACTGTGTTTCTCTTTACTTACTAGTCGATGACT	3060
3061	QY	CATGAGCAAGGAAATCAAACTTTATGTGCTTGAGTTCCTCATCTATAAATGSGAGCTA	3120
3061	DB		
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3121	QY	TAATTAATCATCTCTAGGCTTGTTTGAGGATGTTCAACAAATGCTCTTTTCATCTCTCT	3180
3121	DB		
3121	DB	TAATTAATCATCTCTAGGCTTGTTTGAGGATGTTCAACAAATGCTCTTTTCATCTCTCT	3180
3181	QY	ATTTTACAGACTCGCGGACAGCAATTCCTGCTAGCAGCCTTGTCATATCTGTTTCTTA	3240
3181	DB		
3181	DB	ATTTTACAGACTCGCGGACAGCAATTCCTGCTAGCAGCCTTGTCATATCTGTTTCTTA	3240
3241	QY	AACCTTAGTAATTGAGTGTGATCTGGAGACTAACTCTGAAATAAATAGCTGATATTAT	3300
3241	DB		
3241	DB	AACCTTAGTAATTGAGTGTGATCTGGAGACTAACTCTGAAATAAATAGCTGATATTAT	3300
3301	QY	TTATTTTCTCAAAAACAAGAAATGATTAAGCAAAATTACTCTTAAGATAATTATTAC	3360
3301	DB		
3301	DB	TTATTTTCTCAAAAACAAGAAATGATTAAGCAAAATTACTCTTAAGATAATTATTAC	3360
3361	QY	ATTTCTATATCTCTACCTCGAGTGTGATGTGAGCAATATGTCACTTTCATAAAGCCA	3420
3361	DB		
3361	DB	ATTTCTATATCTCTACCTCGAGTGTGATGTGAGCAATATGTCACTTTCATAAAGCCA	3420
3421	QY	GGTATACATTATGAGCAGGTAACTAAAAACAATATTATTCTACGTTTTTGTCCAAA	3480
3421	DB		
3421	DB	GGTATACATTATGAGCAGGTAACTAAAAACAATATTATTCTACGTTTTTGTCCAAA	3480
3481	QY	AAATTTAAATTTCAACTGTTGGCGGTGTGTTGTTATGATAAACAACCTCACTACAGTAG	3540
3481	DB		
3481	DB	AAATTTAAATTTCAACTGTTGGCGGTGTGTTGTTATGATAAACAACCTCACTACAGTAG	3540
3541	QY	TATTGAGTACAGATTTAAGCCCTCTACTAAACATATCTCTGTCACCAATGAAGTTAC	3600
3541	DB		
3541	DB	TATTGAGTACAGATTTAAGCCCTCTACTAAACATATCTCTGTCACCAATGAAGTTAC	3600
3601	QY	ATGAAAGCAAAATTTGTGAGATATCTAGATGGAAGTAAATTAGTCTTTATGTTCCCC	3660
3601	DB		
3601	DB	ATGAAAGCAAAATTTGTGAGATATCTAGATGGAAGTAAATTAGTCTTTATGTTCCCC	3660
3661	QY	ACAAATGAAATGCAATTTCAAAAATCTGTGTGTATGTGTGTGTGACAGAGTGTGT	3720
3661	DB		
3661	DB	ACAAATGAAATGCAATTTCAAAAATCTGTGTGTATGTGTGTGTGACAGAGTGTGT	3720
3721	QY	GTGAGAGAGACAGAGATACCTTTGGTTGCTTCCATAAGCTGGCTGCTATGATTAA	3780
3721	DB		
3721	DB	GTGAGAGAGACAGAGATACCTTTGGTTGCTTCCATAAGCTGGCTGCTATGATTAA	3780
3781	QY	TAAGACCAAGTTTCTTAAGAAAAATGAGATCATAAACAAAGGCCCTCTTTATGACTATCT	3840
3781	DB		
3781	DB	TAAGACCAAGTTTCTTAAGAAAAATGAGATCATAAACAAAGGCCCTCTTTATGACTATCT	3840
3841	QY	TTATCAGGGGCAAAAAAGGAAAGACAAAAACAGCATGAAATGATGACCAAGTGATGAA	3900
3841	DB		
3841	DB	TTATCAGGGGCAAAAAAGGAAAGACAAAAACAGCATGAAATGATGACCAAGTGATGAA	3900
3901	QY	AATTCAATCACAATGATCTTTCAAGAGTAATTTTCTCTGGGTAATTCAGGACGCTGTT	3960

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QY 5821 TGAGAAATCTTGGAAATCATTTAGCCCAAAAAGCTATTAATAGCAAGATCTATCATTTATT 5880  
DB 5821 TGAGAAATCTTGGAAATCATTTAGCCCAAAAAGCTATTAATAGCAAGATCTATCATTTATT 5880  
QY 5881 GACTAGTATGTGGCAGGCACTGCCCCCTTTATTTAGGCGAGGAGAGTTGATGGGGGGGGCG 5940  
DB 5881 GACTAGTATGTGGCAGGCACTGCCCCCTTTATTTAGGCGAGGAGAGTTGATGGGGGGGGCG 5940  
QY 5941 GGGTTCACACATCTTAAAGAGGTGCTATCTCTCTATATAAATCATGTAAAGTCAAGAGA 6000  
DB 5941 GGGTTCACACATCTTAAAGAGGTGCTATCTCTCTATATAAATCATGTAAAGTCAAGAGA 6000  
QY 6001 GTAGGAAATTTGCTTTGTTGTTTATTTAGGGGATTAAGATACAGTACAGATCCC 6060  
DB 6001 GTAGGAAATTTGCTTTGTTGTTTATTTAGGGGATTAAGATACAGTACAGATCCC 6060  
QY 6061 AAGAAACCTTGGGATCATTTAGACTAAGAAATGCCAATACCGCGCGCGCGCTCA 6120  
DB 6061 AAGAAACCTTGGGATCATTTAGACTAAGAAATGCCAATACCGCGCGCGCGCTCA 6120  
QY 6121 CGCTGTAAATCCAGGACCTTTAGAGGCGGAGGTGGCGGATCAAAAGTTCAGGAGATTG 6180  
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QY 6181 AGACCGTCTGGCTAACGTGGTGAAACCTCTGTCTACTAAAAATACAAAAATTAGCCG 6240  
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QY 6241 GGGTGGTGGCGGCGCTGTAGTCCAGCTACTCGGGAGCGGAGGCGAGGAGGAGTGGT 6300  
DB 6241 GGGTGGTGGCGGCGCTGTAGTCCAGCTACTCGGGAGCGGAGGCGAGGAGGAGTGGT 6300  
QY 6301 TGAATCAGGAGCGGAGCTTGCAGTCAGCCGAGATTCGCCCAATGCATCCAGCTGGG 6360  
DB 6301 TGAATCAGGAGCGGAGCTTGCAGTCAGCCGAGATTCGCCCAATGCATCCAGCTGGG 6360  
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DB 6541 TTCTAAATTAACCCCTGTTACTTACCAAGTGGCAGTCTTAAGGCAATCTTAAGTTCGTTGT 6600  
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DB 6601 GCCCAATTTGTTCACTGTAGAGGGGTAGGATGACAGTGTGTTACTTTATAGGCTT 6660  
QY 6661 ACTGTGAGCAATTAATGAGTTACTGTATTTGTAAAGTGCCTAAATGCTGCTCAAA 6720  
DB 6661 ACTGTGAGCAATTAATGAGTTACTGTATTTGTAAAGTGCCTAAATGCTGCTCAAA 6720  
QY 6721 AGAGTTGTTTAAACACTTAAGAACTGATTTACTTGAATCTAAACTGACAGCTCTCAATAA 6780  
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DB 6721 AGAGTTTGTAAAGACTTAAGAACTGATTTACTTGGCATCTAAACTGACAGCTCTCAATAA 6780  
QY 6781 CTGGAAATGATCAAGCATAGGCCCTTGGAAATATAGCAGGTCTACATGAAGCGAAAAATGT 6840  
DB 6781 CTGGAAATGATCAAGCATAGGCCCTTGGAAATATAGCAGGTCTACATGAAGCGAAAAATGT 6840  
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DB 6841 TCGTTTCTTTTGTTCAGGCCCTGTGCTCTAGATCAATATCTAGTGATCATGCTCAAGAAATA 6900  
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DB 6901 TTGTTGAATGAATCAATGAACCTACCGAGGTAGTTACATAAAAAGAGTTCTGCAATGAGTAC 6960  
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DB 6961 AAATCTGGGCAAAAGTGACCTCCAAGGAAATTTCACTTTTATAGTTCTGTGATTTCTTAA 7020  
QY 7021 GGAACCTGATAAATTTGGTGTGATCAATGTAAAAAATGCGCTATATGATTCAGAAAAA 7080  
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QY 7081 CTATTTCTCTCCCTCTTTTCT 7140  
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DB 7141 CTCCCT 7200  
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DB 7201 TCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT 7260  
QY 7261 CTTCCTTTCTTTGCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT 7320  
DB 7261 CTTCCTTTCTTTGCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCT 7320  
QY 7321 TTCTTTCTTTCTGGCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTAA 7380  
DB 7321 TTCTTTCTTTCTGGCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTAA 7380  
QY 7381 GCAGACCAATGCTGTTAGATGAATGCCCTTTTCTAGTTAAAGGTTAAAGGAAAGTGA 7440  
DB 7381 GCAGACCAATGCTGTTAGATGAATGCCCTTTTCTAGTTAAAGGTTAAAGGAAAGTGA 7440  
QY 7441 AGCACAATTAATCAAGGGTCTCCAGTCATCTCCACATGTTCTTAAATCATTTATCTTTTAA 7500  
DB 7441 AGCACAATTAATCAAGGGTCTCCAGTCATCTCCACATGTTCTTAAATCATTTATCTTTTAA 7500  
QY 7501 CAGTTTCATATCTCCAGGCCCTTTCAATTTGGGTGAGGTTGGCAATTTGCTGCCCCCTTTATGTG 7560  
DB 7501 CAGTTTCATATCTCCAGGCCCTTTCAATTTGGGTGAGGTTGGCAATTTGCTGCCCCCTTTATGTG 7560  
QY 7561 TGTGACAAATGCAAAATTAAGGAAAGAAAAAATCTCAAGTGAAGAAAAATCAGAAATCTCGCCA 7620  
DB 7561 TGTGACAAATGCAAAATTAAGGAAAGAAAAAATCTCAAGTGAAGAAAAATCAGAAATCTCGCCA 7620  
QY 7621 GGAATTCCTGGGGCTTTGAGCTGCTTCCACATGACCTGCTCATCCAGCCCGCAGCATCC 7680  
DB 7621 GGAATTCCTGGGGCTTTGAGCTGCTTCCACATGACCTGCTCATCCAGCCCGCAGCATCC 7680  
QY 7681 ATCTCTTGTCTCATCTTACACCCCTGTGTGTCATGACAGGCCCCACCATTCTTTATCAGAGC 7740  
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db	7681	ATCTCTTGTCTATCTACACCTGTGTGATGACAGGCGCACCATCTATTATCAGAGC	7740
QY	7741	AAAGGCTCTCCCACTATTCTGGTTCACCCCTACTAGCCAGATATACAGAATATCTG	7800
db	7741	AAAGGCTCTCCCACTATTCTGGTTCACCCCTACTAGCCAGATATACAGAATATCTG	7800
QY	7801	CACGGATGACCTGCTCCTCACTGGGAGCTCAGAGGAGCTCAGATTCCATTACTATGCGACC	7860
db	7801	CACGGATGACCTGCTCCTCACTGGGAGCTCAGAGGAGCTCAGATTCCATTACTATGCGACC	7860
QY	7861	AAGGACAGATCTCCAGCAAGAAATGACAGAAAAGACTAACTGCCCCCAAAATCTCCCTTC	7920
db	7861	AAGGACAGATCTCCAGCAAGAAATGACAGAAAAGACTAACTGCCCCCAAAATCTCCCTTC	7920
QY	7921	CAAAACACAGTCTCTTAATCTCCCAAGAAACCAAGATGTGACTGCTCACCCTCTCTAAG	7980
db	7921	CAAAACACAGTCTCTTAATCTCCCAAGAAACCAAGATGTGACTGCTCACCCTCTCTAAG	7980
QY	7981	GACCTGAAAACCACTGGCCATTTCAGCTATTAAATCAACTTTAAAAAATCCACCCGCA	8040
db	7981	GACCTGAAAACCACTGGCCATTTCAGCTATTAAATCAACTTTAAAAAATCCACCCGCA	8040
QY	8041	AAATATTAAACCAATTTGGTTGGAAATGATAACATAAATCAACTTTAAAAAATCCACCCGCA	8100
db	8041	AAATATTAAACCAATTTGGTTGGAAATGATAACATAAATCAACTTTAAAAAATCCACCCGCA	8100
QY	8101	CTAGGTGCAAAATGCAAAAAAATACTCTAATCAGGTCAAAATCACTTACCTTTGGG	8160
db	8101	CTAGGTGCAAAATGCAAAAAAATACTCTAATCAGGTCAAAATCACTTACCTTTGGG	8160
QY	8161	ATTCTTAATTTACTCATATTCTCAAGAAATATATTCAGTCAATGAGGAAAAATAGGAT	8220
db	8161	ATTCTTAATTTACTCATATTCTCAAGAAATATATTCAGTCAATGAGGAAAAATAGGAT	8220
QY	8221	TATTCCTTTAGCTCGATAGCAACCAAGGTTCTCTTCAAAATCTTGACATTTAATCAA	8280
db	8221	TATTCCTTTAGCTCGATAGCAACCAAGGTTCTCTTCAAAATCTTGACATTTAATCAA	8280
QY	8281	TCAGAAATTGATTTTGGAAACCTGTTCTATGAAGCTATCTGCTTGAAGGATTTT	8340
db	8281	TCAGAAATTGATTTTGGAAACCTGTTCTATGAAGCTATCTGCTTGAAGGATTTT	8340
QY	8341	CTTTTACAATCCAGACTATAGAAAGAAATTCACAACTGGGACTTCACTCCATTGGTCA	8400
db	8341	CTTTTACAATCCAGACTATAGAAAGAAATTCACAACTGGGACTTCACTCCATTGGTCA	8400
QY	8401	GAGTTTTTACTGACCAATTTCCACCTCTGCTTACACCTAACGGAAGTTTATGCTGTGTTT	8460
db	8401	GAGTTTTTACTGACCAATTTCCACCTCTGCTTACACCTAACGGAAGTTTATGCTGTGTTT	8460
QY	8461	CTCTTCACATACCCCAAGTACAAATGGTTGTTATTAAAGCATCTTTATTTTGTG	8520
db	8461	CTCTTCACATACCCCAAGTACAAATGGTTGTTATTAAAGCATCTTTATTTTGTG	8520
QY	8521	GCCTCTGATTTACATGGTCCCTTAAATTTGACCTAATCAGAAAGATTTGTAATAATTTCT	8580
db	8521	GCCTCTGATTTACATGGTCCCTTAAATTTGACCTAATCAGAAAGATTTGTAATAATTTCT	8580
QY	8581	TAAATATTAATAATTTTGTATTGTGCAATATCTTACATGATCAATTAAGACAG	8640
db	8581	TAAATATTAATAATTTTGTATTGTGCAATATCTTACATGATCAATTAAGACAG	8640

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QY	8641	AGGTCTTAAGCTTCTCTTTTGAAGAGATATTAGGATTCAGAGATATTAGAGATTCT	8700
db	8641	AGGTCTTAAGCTTCTCTTTTGAAGAGATATTAGGATTCAGAGATATTAGAGATTCT	8700
QY	8701	CCAGGATCAGCTAGGTAAACAGAGCTGGATTTTGTCCAGGCTCTGTCTACAGCTCTAA	8760
db	8701	CCAGGATCAGCTAGGTAAACAGAGCTGGATTTTGTCCAGGCTCTGTCTACAGCTCTAA	8760
QY	8761	CGTATATACACCTTTTGTATAACATGTACCAATTCAGCAATAAGGGATCTTCAGTGATC	8820
db	8761	CGTATATACACCTTTTGTATAACATGTACCAATTCAGCAATAAGGGATCTTCAGTGATC	8820
QY	8821	TAAGTCAGGGGTGAGCAACCTTTTCTAAAAAGGACCAATAGTAAATATTTTACGGCTTTGT	8880
db	8821	TAAGTCAGGGGTGAGCAACCTTTTCTAAAAAGGACCAATAGTAAATATTTTACGGCTTTGT	8880
QY	8881	GGACCTTATGCTCTATCAACTGTTCAAAATCACCATGTAGTGTAAAAAGGACCAATAA	8940
db	8881	GGACCTTATGCTCTATCAACTGTTCAAAATCACCATGTAGTGTAAAAAGGACCAATAA	8940
QY	8941	GCAAAATATAAACTAACGAATGTGGCTGTTTATGGGATTTTTTAACTCTTTATTTA	9000
db	8941	GCAAAATATAAACTAACGAATGTGGCTGTTTATGGGATTTTTTAACTCTTTATTTA	9000
QY	9001	CAAAAGCAGGTGGCAGATCAGAACTCACTTATGGGCTATGTTCTGACCCCTGACCTG	9060
db	9001	CAAAAGCAGGTGGCAGATCAGAACTCACTTATGGGCTATGTTCTGACCCCTGACCTG	9060
QY	9061	AGAAATCTTATATTTATGGAACAACATTTAGACTGTGCTGCAAGTAAAGAACAAAG	9120
db	9061	AGAAATCTTATATTTATGGAACAACATTTAGACTGTGCTGCAAGTAAAGAACAAAG	9120
QY	9121	CTCTGCAACTGAAGGTCAAGGCTGGAGTTCTGAAAGCAAGAGCTGTCTGGTGTAAATG	9180
db	9121	CTCTGCAACTGAAGGTCAAGGCTGGAGTTCTGAAAGCAAGAGCTGTCTGGTGTAAATG	9180
QY	9181	ATAAGTGAATAGTTAAAGTTAGAGATCCAGTTTAAAGAGCAACAAAGATTAATGACC	9240
db	9181	ATAAGTGAATAGTTAAAGTTAGAGATCCAGTTTAAAGAGCAACAAAGATTAATGACC	9240
QY	9241	ATAGACTCTGAACAGAAATGTCTGGACTTCTGGCTTAGGGACTCTTGTGTATGGTCCA	9300
db	9241	ATAGACTCTGAACAGAAATGTCTGGACTTCTGGCTTAGGGACTCTTGTGTATGGTCCA	9300
QY	9301	GGCCAAGTTACCTAATCTCTCAGGGCTCCATTTTCTTATCAATTAAGATAAATAA	9360
db	9301	GGCCAAGTTACCTAATCTCTCAGGGCTCCATTTTCTTATCAATTAAGATAAATAA	9360
QY	9361	AGTATTTTCTCAGAGAGCTGTAAAGATAAACTGAGCTAACCCATGTCAAGCACATAGAA	9420
db	9361	AGTATTTTCTCAGAGAGCTGTAAAGATAAACTGAGCTAACCCATGTCAAGCACATAGAA	9420
QY	9421	TAGGCCCCCAGCTATATTAATTTTCAATAAATGCCAG	9458
db	9421	TAGGCCCCCAGCTATATTAATTTTCAATAAATGCCAG	9458

RESULT 2  
US-10-535-500A-1  
Sequence 1: Application US/10535500A  
GENERAL INFORMATION:  
APPLICANT: Rigshospitalet  
APPLICANT: Henrik Leffers

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APPLICANT: Anne Mette Buhl Hertz  
APPLICANT: Torsten Kjemm  
TITLE OF INVENTION: Methods and kits for diagnosing and  
FILE OF INVENTION: Creating B-cell Chronic Lymphocytic Leukemia (B-CLL)  
FILE REFERENCE: P34546USD1  
CURRENT APPLICATION NUMBER: US/10/535,500A  
PRIOR FILING DATE: 2005-05-18  
PRIOR APPLICATION NUMBER: DK/PA 200201792  
NUMBER OF SEQ ID NOS: 43  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 1  
LENGTH: 19999  
TYPE: DNA  
ORGANISM: Homo Sapiens  
FEATURE:  
NAME/KEY: gene  
LOCATION: 40000-60000  
OTHER INFORMATION: Sequence of ac063949.embum  
US-10-535-500A-1

Query Match 100.0%; Score 9458; DB 1; Length 19999;  
Best Local Similarity 100.0%; Pred. No. 1.6e-86;  
Matches 9458; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 ATTGAATGGTGAATAGTAAAGCAGACGGCTCTACCAATAGGGGAGGCGATCATCC 60  
DB 8951 ATTGAATGGTGAATAGTAAAGCAGACGGCTCTACCAATAGGGGAGGCGATCATCC 9010  
QY 61 AATCTGTGCAAGCTTGAATAAACCAAAAGAGGAGGAAATTTGCTTTCTTCT 120  
DB 9011 AATCTGTGCAAGCTTGAATAAACCAAAAGAGGAGGAAATTTGCTTTCTTCT 9070  
QY 121 TGATCTAGTATATCATCTTCTGCTCCCTTGGATGTGAGTGGGCTTCAGACTTAAACCA 180  
DB 9071 TGATCTAGTATATCATCTTCTGCTCCCTTGGATGTGAGTGGGCTTCAGACTTAAACCA 9130  
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DB 9251 ATTGTGTGAGTCAATTTCCATTTTATACATATCAAGTTATGCAATGCTTAAACATGGA 9310  
QY 361 GACAGTTCTGAGAAATGCATTTGAAGTGATTTTCATCTTGTGCAAAACATCATAGAGTG 420  
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QY 421 TAACTACAAACCTGGACAGCATAGACTACTACACATCTAGGCTACATGGTGTAGCTTG 480  
DB 9371 TAACTACAAACCTGGACAGCATAGACTACTACACATCTAGGCTACATGGTGTAGCTTG 9430  
QY 481 TAACTCATATGATATGATATACATCATCATTAAGTATGATGATCTACCATATCTAA 540  
DB 9431 TAACTCATATGATATGATATACATCATCATTAAGTATGATGATCTACCATATCTAA 9490  
QY 541 ATGTAGAAAGGTACAGTAAATAATGGTATATCTTATGGGATCACCATCATATGCA 600  
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DB 9491 ATGTAGAAAGGTACAGTAAATAATGGTATATCTTATGGGATCACCATCATATATGCA 9550  
QY 601 ATCTTTGTAGACTGAAATGTCTTGTAGTGCATGTATAGGACACATACACAA 660  
DB 9551 ATCTTTGTAGACTGAAATGTCTTGTAGTGCATGTATAGGACACATACACAA 9610  
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DB 9671 CATTTATATGACTCTATTTCAAAATTTATGTTTTGTTGAAACATATGTGGAGTGGGG 9730  
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DB 10151 TGAATAAACATTTTCTGGTTTGAATTTCTAAATAATTTGTTGTGGTCAACCTGAGCTTTT 10210  
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DB 10211 AAATATATAAATCTTTCAAGTTTGCATATTTTATACCTGTTTCTTAAACAAATCTGA 10270  
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DB 10331 TCAGGTAAATCTTTAGGGTATTTTCACTGGCCCTAGTCTTTGGGGTACCATGTTTCTCT 10390  
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QY 1501 AACCAAAATGCTTCTCTGCTGCTATGGAACCACTGAGAGTTTTTACTGTGCTTA 1560  
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		10535500-11_vs_10535500a[1]na..txt	
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Qy	1621	CACAAATTTAAGTACATGAAGTATTTTACAAGTAAAGTAAACATCACTGAAATATACAGC	1680
Db	10571	CACAAATTTAAGTACATGAAGTATTTTACAAGTAAAGTAAACATCACTGAAATATACAGC	10630
Qy	1681	TTTCTCTTTTAAACCTGGTATTTGTTATAAACTAAAGAGCGAATCAAGAAAACGATA	1740
Db	10631	TTTCTCTTTTAAACCTGGTATTTGTTATAAACTAAAGAGCGAATCAAGAAAACGATA	10690
Qy	1741	ATTATTAAGTATTTACAGATTAATTAAGTAAAGAGGAAATGTACGGAATAGAGAGGAA	1800
Db	10691	ATTATTAAGTATTTACAGATTAATTAAGTAAAGAGGAAATGTACGGAATAGAGAGGAA	10750
Qy	1801	GGAGTTAAACAAATGATCCACTCTGGGTGTTGAAACACCAATAGGCTGCTTCCAGGAG	1860
Db	10751	GGAGTTAAACAAATGATCCACTCTGGGTGTTGAAACACCAATAGGCTGCTTCCAGGAG	10810
Qy	1861	TGCTCTAGACAGAGCTGGCTGAGCTTCTGGGTGACAGCATGTAGGAAACTGCTGGGCT	1920
Db	10811	TGCTCTAGACAGAGCTGGCTGAGCTTCTGGGTGACAGCATGTAGGAAACTGCTGGGCT	10870
Qy	1921	ACATGCCACCATCTGAGTTGTCAGATAGATAATCCCATAGCCCCATGGGGAATAATCT	1980
Db	10871	ACATGCCACCATCTGAGTTGTCAGATAGATAATCCCATAGCCCCATGGGGAATAATCT	10930
Qy	1981	TTTAAATATGATATAGCTGACACATCAAGGACACTATGCTAAGTCTCTTATGTGAATTA	2040
Db	10931	TTTAAATATGATATAGCTGACACATCAAGGACACTATGCTAAGTCTCTTATGTGAATTA	10990
Qy	2041	ACTTTTGTCAAAATTTATTTTATAAATTAACCCAAATATGTATACCACATATATCTCTACC	2100
Db	10991	ACTTTTGTCAAAATTTATTTTATAAATTAACCCAAATATGTATACCACATATATCTCTACC	11050
Qy	2101	TTAAAGAGGAGAACTGAGCTCCTAAAGTTTAAATATCTAACCCCAAGTTAAGACTCTAG	2160
Db	11051	TTAAAGAGGAGAACTGAGCTCCTAAAGTTTAAATATCTAACCCCAAGTTAAGACTCTAG	11110
Qy	2161	TCACCTTAGGCTATTAACTCAGGAGCTTAACCTCAGGTATATAACATATGCTACTGTT	2220
Db	11111	TCACCTTAGGCTATTAACTCAGGAGCTTAACCTCAGGTATATAACATATGCTACTGTT	11170
Qy	2221	TGCGCTTTGACTATGCTCGAATTAAACGTCATGCTATCTAACTAAAAGCTTAAGGAA	2280
Db	11171	TGCGCTTTGACTATGCTCGAATTAAACGTCATGCTATCTAACTAAAAGCTTAAGGAA	11230
Qy	2281	ATAAAAATGAGCCATAGGGCTCAATTTTATAAAAGAGAGAAATATCTGGGGAAGTGAAT	2340
Db	11231	ATAAAAATGAGCCATAGGGCTCAATTTTATAAAAGAGAGAGAAATATCTGGGGAAGTGAAT	11290
Qy	2341	AATGCGAGTTTTAAATATTTTTGTAAAAGTCCGAGATTGAGTATAACAGTGTGACC	2400
Db	11291	AATGCGAGTTTTAAATATTTTTGTAAAAGTCCGAGATTGAGTATAACAGTGTGACC	11350
Qy	2401	AAAAAAAAAAAAAAAAAAAAAGGAAAGAGTAAAAAAAAAGGAGGAGTCTGAGAAAT	2460
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QY	2461 AGAAATATCAGAGGAAGAAATAAGGAGGGTGAGAGTAATTCCTCTTTTACGATTCAGA	2520
DB		
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QY	2521 TTCCAAGATTCCACAAATCAGCATTTCTTTTTTTTACCAACTAAGGAAAAATAACACTTGA	2580
DB		
DB	11471 TTCCAAGATTCCACAAATCAGCATTTCTTTTTTTTACCAACTAAGGAAAAATAACACTTGA	11530
QY	2581 CCTAACATTTTCATTCGAGTAGCTAAGGAGTCTAGAAAACTATGTTGCAGTGGTTTGC	2640
DB		
DB	11531 CCTAACATTTTCATTCGAGTAGCTAAGGAGTCTAGAAAACTATGTTGCAGTGGTTTGC	11590
QY	2641 TCTAATTTCTTCAGGAATAGAGAAAAAGTGACAAAAAGATTCAGAGAGAGAGAAAGGAAA	2700
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DB		
DB	11651 CTATCAGAAAAATACAGAAATTGGAGTAGGATAAACAATATTTGGTTTGAAGCTAAAAATT	11710
QY	2761 TATATTGTAATCTTAAGTATCTTCTACTTCAGTTTGGTTCCTCGGAACAGCAGCATCAGA	2820
DB		
DB	11711 TATATTGTAATCTTAAGTATCTTCTACTTCAGTTTGGTTCCTCGGAACAGCAGCATCAGA	11770
QY	2821 ATCTCCGAGGGCTTGTAAAAGGCGAAGATCTCAGCTCCATCCAGACTCACTGAATC	2880
DB		
DB	11771 ATCTCCGAGGGCTTGTAAAAGGCGAAGATCTCAGCTCCATCCAGACTCACTGAATC	11830
QY	2881 AGAATAAATACTCAGCAAGATGCCCGGGATTCATATGCAAGTAGAGCTGGCGAAGTT	2940
DB		
DB	11831 AGAATAAATACTCAGCAAGATGCCCGGGATTCATATGCAAGTAGAGCTGGCGAAGTT	11890
QY	2941 CCAATTGAGCTGTGATTTGTTTCTGCAACTAGTATTTCTGAGTTTCCCAAGAGAGAA	3000
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QY	3001 AACCCAGGCTTAGCTTGGCAGACTTGTGTTTCTCTTTTACTACTAGCTGATGACT	3060
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QY	3061 CATGAGCAAGGAAATCAAACTTTATGTGCTGAGTTTCTCATCTATAAAATGGAGACTA	3120
DB		
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QY	3121 TAATAATCATCTCTAGCTTGTGTTTGAAGTAGTTCAACAAATGCTCTTTTCATCTCTCT	3180
DB		
DB	12071 TAATAATCATCTCTAGCTTGTGTTTGAAGTAGTTCAACAAATGCTCTTTTCATCTCTCT	12130
QY	3181 ATTTACAGACTGGCGAGACAATCTGCTAGCAGCTTGTGCTATTATCTGTTTCTTA	3240
DB		
DB	12131 ATTTACAGACTGGCGAGACAATCTGCTAGCAGCTTGTGCTATTATCTGTTTCTTA	12190
QY	3241 AACTTAGTAATTGAGTGTGATCTGGAGACTAATCTGAAATTAATAGCTGATTTATAT	3300
DB		
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QY	3421	GGTATACATATGACAGAGTAAAGTAAAAACAATATATTTATCTACGTTTTTGTCCAAA	3480
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QY	3481	AATTTTAAATTTCAACTGTTGGCGGTGTTGGTAACTAAAACAAACTCAGTACAGTAG	3540
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QY	3541	TATTCAGTACAGTATTAAGCCCTCTGACTTAAACATATTCCTGTCACCAATGAAGTTAC	3600
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DB	12551	ATGAAAAGCAAAATTTGTGAGATATCTAGATGGAAGTAAATTAGTCTTTATGTTCCCC	12610
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DB	12611	ACAAATGAAATGCAATTTCAAAAATCTGTGTGTGTGTGTGTGTGTGTGACAGAGTGTG	12670
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QY	3841	TTATCGGGGGCAAAAAGGAAAGACACAAACAGCATGAAATGATGACCAAGTGATGAA	3900
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DB	12851	AATTCATTCACAATGATTGCTTTCAAGAGTAATTTCTCTGGGTAAATTCAGCAGCCTGTT	12910
QY	3961	ACTATGGCTCTCTGGAGTGATAGCTAATGTAATGAGCCCTCTAAAAGTGGATTTCTCTG	4020
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QY	4081	CAAAAAGATAAATATCTTTTTTTTTTTTAAAGTTAATGACCTACGATCCAATTTCTTCC	4140
DB	13031	CAAAAAGATAAATATCTTTTTTTTTTTTAAAGTTAATGACCTACGATCCAATTTCTTCC	13090
QY	4141	CTGACTATACAGCAGCAGCAGCTTAAAAATATTCAGCCGGATGAAATAGAAACCCACT	4200
DB	13091	CTGACTATACAGCAGCAGCAGCTTAAAAATATTCAGCCGGATGAAATAGAAACCCACT	13150
QY	4201	GACTTGTTAATATTTTTTGTGGTCCAGGGACTCAGATCTAAGCCAAATTTCTTTGAAT	4260
DB	13151	GACTTGTTAATATTTTTTGTGGTCCAGGGACTCAGATCTAAGCCAAATTTCTTTGAAT	13210
QY	4261	GATCTTGGCAAAATGTCGAAATATTTTTTGGCAACTTTTTCTTTATCTTGGAAAAAAGTT	4320
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QY	4321	TCATGAATGGGTGTCAAAATGATGATGTTTTAAAAACCCTTTCTTGACAGTACGTATGGCA	4380

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[illegible]

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Db	15371	AGAGCCAAATCATGAAATTAAGCTAAACAAATGTTGGCAGTAGCTAGTGGTTAAGAG	15430
QY	6481	AGCAGACTCTTAACCTAGAACACTGCATCCA TGCTCTCACTGTAGACCTCACTCTGGGG	6540
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QY	6541	TTCTAATTAACCCCTGTTACTTACCAGTGGCAGCTTAAGGCAATCCTTAAGTCTGTTG	6600
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QY	6661	ACTGTGAGCATTAATGAGTTACTACTGTATTGTTAAAGTGCTTAAATGCTGCTCAAAA	6720
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QY	6781	CTGGAAA TGA TCAAGCATAGGCCCTTGGAAATATAAGCAGGTCTACATGAAGCGAAAAATGT	6840
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QY	6901	TTGTTGAATGAATCAATGAACTACCGAGGTAGTTACATAAAAAGAGTTCTGCATGAGTAC	6960
Db	15851	TTGTTGAATGAATCAATGAACTACCGAGGTAGTTACATAAAAAGAGTTCTGCATGAGTAC	15910
QY	6961	AAATCTGGGCAAGTGACCTCCAAGGAAATTTCACTTTTAGATTCTGTAATTCCTTAA	7020
Db	15911	AAATCTGGGCAAGTGACCTCCAAGGAAATTTCACTTTTAGATTCTGTAATTCCTTAA	15970
QY	7021	GGAACTGATAAATTTGTTGATTACAATGTAAAAAAATGCGCTATATGATTTGAGAAAAA	7080
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QY	7081	CTTATTTCTCTCCCTCTTTTTCTCTTCTCTTCTCCCTCCCTCTCTCTCTCTCTCTCT	7140
Db	16031	CTTATTTCTCTCCCTCTTTTTCTCTTCTCTTCTCCCTCCCTCTCTCTCTCTCTCTCT	16090
QY	7141	CTCCCTCTCTCTCTCCCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT	7200
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[illegible]



10535500-11\_vs\_10535500a11na.txt

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9421 TAGGGCCAGGCTATATTAATTTATGAATGAATGCCAG 9458

18371 TAGGGCCAGGCTATATTAATTTATGAATGAATGCCAG 18408

RESULT 3

US-10-535-500A-5

Sequence 5, Application US/10535500A

GENERAL INFORMATION:

APPLICANT: Rigshospitalet

APPLICANT: Henrik Leffers

APPLICANT: Anne Mette Buhl Hertz

APPLICANT: Jorgen Kiems

TITLE OF INVENTION: Methods and kits for diagnosing and

FILE REFERENCE: P34546US01

CURRENT APPLICATION NUMBER: US/10/535,500A

CURRENT FILING DATE: 2005-05-18

PRIOR APPLICATION NUMBER: DK/PA 200201792

PRIOR FILING DATE: 2002-11-19

NUMBER OF SEQ ID NOS: 43

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 5

LENGTH: 89650

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: gene

LOCATION: (0)...(0)

OTHER INFORMATION: human genome sequence

US-10-535-500A-5

Query Match 100.0%; Score 9458; DB 1; Length 89650;

Best Local Similarity 100.0%; Pred. No. 3; 9e-87;

Matches 9458; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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8951 ATTTGAATGGTGAACCTAGTAAAGCAGAGCGCTCTGACCAATGAAGGCGGATCATCC 9010

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DB 11651 CTATCAGAAAAATACAGAAATGGAGTAGGATATAACATATTTGGGTTGAGGTTAAAAATTT 11710  
QY 2761 TATATTGTAATCTTAAAGTATCTTCTACTTCTGAGTTGGTCCCTGGAACAGCAGCATCAGA 2820  
DB 11711 TATATTGTAATCTTAAAGTATCTTCTACTTCTGAGTTGGTCCCTGGAACAGCAGCATCAGA 11770  
QY 2821 ATCTGCCAGGCTGTTTAAAGGCGAGAACTCAGGCTCCATCCCACTCACTCAATC 2880  
DB 11771 ATCTGCCAGGCTGTTTAAAGGCGAGAACTCAGGCTCCATCCCACTCACTCAATC 11830  
QY 2881 AGAATATAATACTGACAAAGATGCCCGGAGTTCAATATGCAAGTAGAGCTGGCGAAGTT 2940



db 11831 AGAATAAATACTGACAGATGCCCCGGGATTCATATGCAAGTAGAGCTGGCGAGTT 11890  
qy 2941 CCATTGTAGCTGTGATTTGTTTCTGCAACTAGTATTTCTGAGTTTCCCAAGGAAGAA 3000  
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qy 3001 AACCCAGCCCTAGCTTCTGGCAGACTTGTGTTTCTCTTACTTACTAGCTGCATGACT 3060  
db 11951 AACCCAGCCCTAGCTTCTGGCAGACTTGTGTTTCTCTTACTTACTAGCTGCATGACT 12010  
qy 3061 CATGAGCAAGAAATCAAACTTTATGTGCTGAGTTTCTCATCTATAAATGGAGACTA 3120  
db 12011 CATGAGCAAGAAATCAAACTTTATGTGCTGAGTTTCTCATCTATAAATGGAGACTA 12070  
qy 3121 TAATAATCATCTCTAGGCTTGTGTTGAGGATGTTCACAAAATGCTCTTCAATCTCT 3180  
db 12071 TAATAATCATCTCTAGGCTTGTGTTGAGGATGTTCACAAAATGCTCTTCAATCTCT 12130  
qy 3181 ATTTAGAGCTTCCCGAGCAATCTCTAGAGCCCTTGTCTATTTATCTGTTTCTA 3240  
db 12131 ATTTAGAGCTTCCCGAGCAATCTCTAGAGCCCTTGTCTATTTATCTGTTTCTA 12190  
qy 3241 AACTTAGTAATGAGTGTGATCTGGAGACTAACTCTGAAATAAATAGCTGATTTAT 3300  
db 12191 AACTTAGTAATGAGTGTGATCTGGAGACTAACTCTGAAATAAATAGCTGATTTAT 12250  
qy 3301 TTATTTCTCAAAACACAGAAATACGATTTAGCAAAATCTCTTAAGATATTTAT 3360  
db 12251 TTATTTCTCAAAACACAGAAATACGATTTAGCAAAATCTCTTAAGATATTTAT 12310  
qy 3361 ATTTCTATATCTCTACCTGAGTGTGATGTGAGCAATATGTCATTTCAATAAGCCA 3420  
db 12311 ATTTCTATATCTCTACCTGAGTGTGATGTGAGCAATATGTCATTTCAATAAGCCA 12370  
qy 3421 GGTATACATTTATGGACAGTAAGTAAACATATTTATTTCTAGTTTTTGTCCAAA 3480  
db 12371 GGTATACATTTATGGACAGTAAGTAAACATATTTATTTCTAGTTTTTGTCCAAA 12430  
qy 3481 AATTTTAAATTTCAACTTTGCGCGTGTGTTGTTATGTAAACAACTCAGTACAGTAG 3540  
db 12431 AATTTTAAATTTCAACTTTGCGCGTGTGTTGTTATGTAAACAACTCAGTACAGTAG 12490  
qy 3541 TATTGAGTACAGTATTTAAGCCCTGTACTTAAACATATTTCTGTAACCAATGAAGTTAC 3600  
db 12491 TATTGAGTACAGTATTTAAGCCCTGTACTTAAACATATTTCTGTAACCAATGAAGTTAC 12550  
qy 3601 ATGAAAAGCAAAATTTGTGTGAGATATCGTAGATGGAAGTAAATTAGTCTTTATGTTCC 3660  
db 12551 ATGAAAAGCAAAATTTGTGTGAGATATCGTAGATGGAAGTAAATTAGTCTTTATGTTCC 12610  
qy 3661 ACAAAATTTGAAATGCAATTTCAAAACTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 3720  
db 12611 ACAAAATTTGAAATGCAATTTCAAAACTCTGTGTGTGTGTGTGTGTGTGTGTGTGT 12670  
qy 3721 GTGAGAGAGACAGAGATACGCTTTGGTGCCTCCATAGCTGCTGCTATGATTAA 3780  
db 12671 GTGAGAGAGACAGAGATACGCTTTGGTGCCTCCATAGCTGCTGCTATGATTAA 12730  
qy 3781 TAAGACCAAGTTTCTTAAGAAATGAGATCATACAAAGCCCTCTTTATGACTATCTT 3840  
db 12731 TAAGACCAAGTTTCTTAAGAAATGAGATCATACAAAGCCCTCTTTATGACTATCTT 12790

qy 3841 TTATCAGGGGCAAAAGGAAAGAGACAAACAGCATGAAATGATGAGCCAAAGTGATGAA 3900  
db 12791 TTATCAGGGGCAAAAGGAAAGAGAGACAAACAGCATGAAATGATGAGCCAAAGTGATGAA 12850  
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db 12971 ACAAGAATATACTCAGCCAAATGCAACAGAAATCCAATCAAGCATTCGGGAAAAAT 13030  
qy 4081 CAAAAGAAATAATATTTCTTTTAAAGTTAATGACCTACCATTTCTTCTCC 4140  
db 13031 CAAAAGAAATAATATTTCTTTTAAAGTTAATGACCTACCATTTCTTCTCC 13090  
qy 4141 CTGACTAACAGCAGCAAGCACTTAAATAATCCAGCCAGGATGAATAGAAACCCACT 4200  
db 13091 CTGACTAACAGCAGCAAGCACTTAAATAATCCAGCCAGGATGAATAGAAACCCACT 13150  
qy 4201 GACTTGTTAATATTTTGTGTCAGGGAATCAGATTTAAGCCAAATTTCTTTGAAT 4260  
db 13151 GACTTGTTAATATTTTGTGTCAGGGAATCAGATTTAAGCCAAATTTCTTTGAAT 13210  
qy 4261 GACTTGTGCAATTTCTCGAATTTATTTTGTGTCAGGGAATCAGATTTAAGCCAAATTT 4320  
db 13211 GACTTGTGCAATTTCTCGAATTTATTTTGTGTCAGGGAATCAGATTTAAGCCAAATTT 13270  
qy 4321 TCATGAATGGGTGCAAAATTTGATTTTAAACCTTTCTTGAGATACGATGGA 4380  
db 13271 TCATGAATGGGTGCAAAATTTGATTTTAAACCTTTCTTGAGATACGATGGA 13330  
qy 4381 CCCTAAACTGTATTAGAAAAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA 4440  
db 13331 CCCTAAACTGTATTAGAAAAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA 13390  
qy 4441 ACCCTCTTTTACAACTCAGAAAAAGCTTTGGAATACCCACATGAAGTACCTGTTGT 4500  
db 13391 ACCCTCTTTTACAACTCAGAAAAAGCTTTGGAATACCCACATGAAGTACCTGTTGT 13450  
qy 4501 TATTGCTTTCTATATACCTACATCTTGTCTATTATAAAGAGCTGGTTTTTGGCAGGTGT 4560  
db 13451 TATTGCTTTCTATATACCTACATCTTGTCTATTATAAAGAGCTGGTTTTTGGCAGGTGT 13510  
qy 4561 GGTGGCTCACACCTGTAAATTCAGCACTTTGGAGGCCAAGCGCGGCGGATCACCTGAGA 4620  
db 13511 GGTGGCTCACACCTGTAAATTCAGCACTTTGGAGGCCAAGCGCGGCGGATCACCTGAGA 13570  
qy 4621 TCAGGAGTTCAAGCAGCCCTGATCAATATGTTGAAACCCAGTCTTTACTGAAATACAA 4680  
db 13571 TCAGGAGTTCAAGCAGCCCTGATCAATATGTTGAAACCCAGTCTTTACTGAAATACAA 13630  
qy 4681 AATTCACCCGGGTGTGGTGGCGGCGCTGAGTCCAGCTACTCGGCTAGTGAGGCGAG 4740  
db 13631 AATTCACCCGGGTGTGGTGGCGGCGCTGAGTCCAGCTACTCGGCTAGTGAGGCGAG 13690  
qy 4741 GAGAACTACTTGAATCAGGAGTTCAGGTTGCAAGTGGAGTGGAGTCAATGCACTGCACT 4800  
db 13691 GAGAACTACTTGAATCAGGAGTTCAGGAGTTCAGGTTGCAAGTGGAGTGGAGTCAATGCACT 13750

QY 4801 CAGCTGGGTGACAGAGCAAGACTCGATCTCAAAAAAAGAGACTGGTTTT 4860  
DB 13751 CAGGCTGGGTGACAGAGCAAGACTCGATCTCAAAAAAAGAGACTGGTTTT 13810  
QY 4861 TCAACAGCTATTCCACCCCTCTGCAATGGAATATTCAACCGAGTCAATTTGTTCTTAGT 4920  
DB 13811 TCAACAGCTATTCCACCCCTCTGCAATGGAATATTCAACCGAGTCAATTTGTTCTTAGT 13870  
QY 4921 TTGGTAAATGGCCCTCTGGGCAAGCACTGGAGTGGGGCACAAGGAGAGCTGCAAACTAT 4980  
DB 13871 TTGGTAAATGGCCCTCTGGGCAAGCACTGGAGTGGGGCACAAGGAGAGCTGCAAACTAT 13930  
QY 4981 GTTTAGAAGCATGTCTGGGAAATGTCTCA TCGAAGAAAGACATATTTAAAGGTAGCTTTG 5040  
DB 13931 GTTTAGAAGCATGTCTGGGAAATGTCTCA TCGAAGAAAGACATATTTAAAGGTAGCTTTG 13990  
QY 5041 CATGAATGGAAGAGAGATTAATCTATGTAGAGCAGAGCTCTTACTTGCAGTGAAGA 5100  
DB 13991 CATGAATGGAAGAGAGATTAATCTATGTAGAGCAGAGCTCTTACTTGCAGTGAAGA 14050  
QY 5101 AGCAAAAGTGGGAGCAAGAGGAAATATGCTTTTTCATGAGCAAAATTTGCAAGGTAGGAG 5160  
DB 14051 AGCAAAAGTGGGAGCAAGAGGAAATATGCTTTTTCATGAGCAAAATTTGCAAGGTAGGAG 14110  
QY 5161 GATTGGCTCAGTCAATCTTGGCTGAGGCTCATGAAACCAAGTGTAAAGAAATGGACTAGA 5220  
DB 14111 GATTGGCTCAGTCAATCTTGGCTGAGGCTCATGAAACCAAGTGTAAAGAAATGGACTAGA 14170  
QY 5221 TTAATTTTCATTCATACAGGAAGAGGAGCCGTGAAAGATAATCCAGAAATCATTTGGGATT 5280  
DB 14171 TTAATTTTCATTCATACAGGAAGAGGAGCCGTGAAAGATAATCCAGAAATCATTTGGGATT 14230  
QY 5281 TGATGGTAGAAGTATTTTGGGACTATTCATTTTGAATGAGAAGTACCTGACATCTT 5340  
DB 14231 TGATGGTAGAAGTATTTTGGGACTATTCATTTTGAATGAGAAGTACCTGACATCTT 14290  
QY 5341 TGAATTCCTTTCAAGCAAGGATTAATTTACCCATGAGTTCGACTCAGAAAAACATAAA 5400  
DB 14291 TGAATTCCTTTCAAGCAAGGATTAATTTACCCATGAGTTCGACTCAGAAAAACATAAA 14350  
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DB 14351 AAGTATTGCTCTGCTCAGAGTTTTATCTAACTGATTCGACTCTTCTTATTCATGATG 14410  
QY 5461 AAATGACATAAATGAGGTTTTTATTGTTGTTGTTGTTTCTGGAACAAGGCAAGG 5520  
DB 14411 AAATGACATAAATGAGGTTTTTATTGTTGTTGTTGTTTCTGGAACAAGGCAAGG 14470  
QY 5521 TAGCTACCTGGGCAAGCTGTTTTTATTTCTATGCGCTGGAGAGAAATTTGGTTAAATGG 5580  
DB 14471 TAGCTACCTGGGCAAGCTGTTTTTATTTCTATGCGCTGGAGAGAAATTTGGTTAAATGG 14530  
QY 5581 CCATGGAAGGCGATCAATAGATGTTCCCATGCGAGTGAACCTTTCAAGGTTCCGAGCTT 5640  
DB 14531 CCATGGAAGGCGATCAATAGATGTTCCCATGCGAGTGAACCTTTCAAGGTTCCGAGCTT 14590  
QY 5641 CTGGATCTTCTGCTCTCAATTCATTTGTTGGTATGCAATGCTCTCCGATGAGC 5700  
DB 14591 CTGGATCTTCTGCTCTCAATTCATTTGTTGGTATGCAATGCTCTCCGATGAGC 14650  
QY 5701 CTGATGAAGTCTCTCATTTATTAAATTTGCTTTGAGGAAAAATTTTGAAGATGTGT 5760  
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QY 5821 TGAGAAATCTTGGAAATCATTTGAGCCAAAAAGCTTAAATAGCAAGATCTATCATTTATT 5880  
DB 14771 TGAGAAATCTTGGAAATCATTTGAGCCAAAAAGCTTAAATAGCAAGATCTATCATTTATT 14830  
QY 5881 GACTAGTATGTGGCAGGCACTGCCCCCTTTTATTAGGCAGGGAGAGTTGATGGGGGGGGCG 5940  
DB 14831 GACTAGTATGTGGCAGGCACTGCCCCCTTTTATTAGGCAGGGAGAGTTGATGGGGGGGGCG 14890  
QY 5941 GGGTTCAACATCTTAAAGAGGTGCTATCTCTCTATATAATCATGTAAAGTCAAGAGA 6000  
DB 14891 GGGTTCAACATCTTAAAGAGGTGCTATCTCTCTATATAATCATGTAAAGTCAAGAGA 14950  
QY 6001 GTAAAGAAATTTGTTTGGTTTATTTACGGGATTTAGAGTATACAGTAGAAGATCCC 6060  
DB 14951 GTAAAGAAATTTGTTTGGTTTATTTACGGGATTTAGAGTATACAGTAGAAGATCCC 15010  
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DB 15071 CGCTGTAAATCCAGCACTTTTGAAGCCGAGGTGGGCGGATCACAAGGTCAAGGATTTG 15130  
QY 6181 AGACCTGCTGGCTTAACGTGGTGAACCCCTGTCTCTACTAAAAATACAAAAATTTAGCCG 6240  
DB 15131 AGACCTGCTGGCTTAACGTGGTGAACCCCTGTCTCTACTAAAAATACAAAAATTTAGCCG 15190  
QY 6241 GGGCTGGTGGCGGGCCCTGTAGTCCAGCTACTCGGGAGGCGGAGGAGAGATTTG 6300  
DB 15191 GGGCTGGTGGCGGGCCCTGTAGTCCAGCTACTCGGGAGGCGGAGGAGATTTG 15250  
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DB 15251 TGAATCTGAGGAGGGGAGCTTGCAGTCAGCCGAGATTTGCCCAATGCCAATACCAGCAGAAAT 15310  
QY 6361 CGACAGAACGAGACTCCGTCTCAGAACAAAAAGGAAATGCCAATACCAGCAGAAAT 6420  
DB 15311 CGACAGAACGAGACTCCGTCTCAGAACAAAAAGGAAATGCCAATACCAGCAGAAAT 15370  
QY 6421 AGAGCCAAATCATGAACATAAGCTAAA CAAATTTTGGCAAGTAGCCTAGTTAAGAG 6480  
DB 15371 AGAGCCAAATCATGAACATAAGCTAAA CAAATTTTGGCAAGTAGCCTAGTTAAGAG 15430  
QY 6481 AGCAGACTCTTAACAGAACACTGCACCTCCATGCTCTCAGTGTAGACCTCAGCTGTGGGG 6540  
DB 15431 AGCAGACTCTTAACAGAACACTGCACCTCCATGCTCTCAGTGTAGACCTCAGCTGTGGGG 15490  
QY 6541 TTCTAATTAACCCCTGTACTTACCAGTGGCAGCTCTTAAGGCAATCTTAAAGTTCGTTG 6600  
DB 15491 TTCTAATTAACCCCTGTACTTACCAGTGGCAGCTCTTAAGGCAATCTTAAAGTTCGTTG 15550  
QY 6601 GCGCCAAATTTGTTTCTGATAGAGGGGTAGGATGACAGTAGTGTCTTACTTATAGGCTT 6660  
DB 15551 GCGCCAAATTTGTTTCTGATAGAGGGGTAGGATGACAGTAGTGTCTTACTTATAGGCTT 15610  
QY 6661 ACTGTGAGCATTAATGAGTTACTACTGTATTGTTAAAGTGTCTTAAATGCTGCTCAAA 6720  
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QY 2611 TGTAGAAAACTATGTGCGAGTGGTTGCTCTAAATTTCTTCAGGAATAGAGAAAAAGTGA 2670  
DB 2461 TGTAGAAAACTATGTGCGAGTGGTTGCTCTAAATTTCTTCAGGAATAGAGAAAAAGTGA 2520  
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QY 3271 AACTCTGAAATAAATAGCTGATTTATTTATTTTCTCAAAACCAACAGAAATACGATTT 3330  
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QY 3331 AGCAATTTACTCTTAAGATATTATTTTACATTTCTATTTCTCTACCTGAGTTGATG 3390  
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QY 3391 TGTGAGCAATGTCAGCTTTTATTAAGCCAGCTATACATTTGACAGCTAAGTAAAAA 3450  
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QY 3451 CATATATTATTTCTACGTTTTTGTCCAAAAATTTTAAATTTCAACTGTTGCGCGTGTG 3510  
DB 3301 CATATATTATTTCTACGTTTTTGTCCAAAAATTTTAAATTTCAACTGTTGCGCGTGTG 3360  
QY 3511 TGGTAATGTAAAAAACAACCTCAGTACAGTAGTATTCAGTACAGATTTTAAAGCCCTGTACT 3570  
|||||

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DB 3421 TAAACATATTTCTCTGACCAATGAAGTTACATGAAAGCAAAATTTGTGTGAGATATCGTA 3480  
QY 3631 GATGGAAGTAAATTAGTCTTTTATGTTCCCAAAATGAAATGCAATTTCAAAAACCTCTGT 3690  
DB 3481 GATGGAAGTAAATTAGTCTTTTATGTTCCCAAAATGAAATGCAATTTCAAAAACCTCTGT 3540  
QY 3691 GTGTGATGTGTGTGTGACAGAGCTGTGTGTGAGAGAGACAGAGAGATACGCTTTGG 3750  
DB 3541 GTGTGATGTGTGTGTGACAGAGCTGTGTGTGAGAGAGACAGAGAGATACGCTTTGG 3600  
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DB 3601 TTGCTCCATTAAGCTGGCTGCTATGATTAATTAAGACCAAGTTTTCTTAAGAAAAATCAGAT 3660  
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DB 3661 CATAACAAAAGCCCTCTTTATGACTATCTTTTATCAGGGGCAAAAAGGAAAGAGACAAAA 3720  
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DB 3721 CAGCATGAAATGATGAGACCAAGTGATGAAAAATTCATTCAAAATGATTTGCTTTCAAGAGT 3780  
QY 3931 AATTTCTCTGGGTAATTCAGCAGCTGTTACTATGCTCTCTGGAAGTATAGCTAATGT 3990  
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QY 3991 AAATGAAGCTCTTAAAGTGGAATATCTTGACAGAAATATATCTCAGCCAAATAGTCAACA 4050  
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DB 3901 GAAATCCATTAAGCAATTCGGGAAAAATTCAAAAGAAATAAATATCTTTTTTTTTTTT 3960  
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QY 4291 CCAACTTTTCTTTATCTTGAAAAAAGTTTTCATGAATGGGTGTCAAAATTTGATTAGTTT 4350  
DB 4141 CCAACTTTTCTTTATCTTGAAAAAAGTTTTCATGAATGGGTGTCAAAATTTGATTAGTTT 4200  
QY 4351 TAAAAACCTTTCTTGAGATAGTATGGGACCTTAAACTGTATTAGAAAAAAGTAACT 4410  
DB 4201 TAAAAACCTTTCTTGAGATAGTATGGGACCTTAAACTGTATTAGAAAAAAGTAACT 4254  
QY 4411 ACTCTGAGTGTGAAAAATTTCTTAAGGACACCTCTTTTACAAACTCACAAAAACAGCC 4470  
DB 4255 ----- 4254  
QY 4471 TTTGGAATACCCATGAAGTAGCTGTTGTTATGTTGTTCTTCTATATACCTACATCTGTCT 4530  
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Qy	4531	ATTATAAAGAGCTGTTTTGGCAGGTGTGGTGGCTCACACCTGTAAATCCAGCACTTT	4590
Db	4255	-----	4254
Qy	4591	GGGAGGCAAGGGCGCGGATCACTTGAGATCAGAGTTTCCAGGACGAGCTGATCAATAT	4650
Db	4255	-----	4254
Qy	4651	GGTGAACCCAGTCTTTACTGAAATACAAAAATCACCCGGTGTGTGACGGGCGCTG	4710
Db	4255	-----	4254
Qy	4711	TAGTCCAGCTACTCGGTAGCTGAGGCAGGAGATCACTTGAAGTCAAGAGTCAAGGT	4770
Db	4255	-----	4254
Qy	4771	TGCAGTGAGCTGAGATCATGCCACTGCACTCCAGCCTGGGTGACAGCAAGACTCCATC	4830
Db	4255	-----	4254
Qy	4831	TCAAAAAAAGAGCTGGTTTTTCAACAGCTATCCACCCCTCTGCATGGA	4890
Db	4255	-----	4254
Qy	4891	AATATTCACCCAGTCAATTGTTCTAGTTGGTAAATGGCCCTCTGGCAGGAGCTGGA	4950
Db	4255	-----	4254
Qy	4951	GTGGGACACAGGAGAGCTGCAAACTATGTTAGAAGCATGCTGGGAAATGTCATGC	5010
Db	4255	-----	4254
Qy	5011	AAGAAAGACATATTTAAGGTAGCTTTGATGAATGGAAGGAGAGTAAATCTATGT	5070
Db	4255	-----	4254
Qy	5071	AGAGCAGAGCTCTTACTTCAGTGAGAGAGCAAAAGTGGGGAAGCAAGAGGAATATG	5130
Db	4255	-----	4254
Qy	5131	CTTTTCATCAGCCAAATTCAGGTAGGAGATTGGCTCAGTCATCTTGGCTGAGGCTCA	5190
Db	4255	-----	4254
Qy	5191	TGAAACCAAGGTGTAAGAAAGTGAGCTAGATTAAATTTTATCCATTACAGGAAGAGAGCC	5250
Db	4255	-----	4254
Qy	5251	GTGAAGATAATCCAGAAATCATTGGGATTTGATGTAAGGATATTTGGGACTATCC	5310
Db	4255	-----	4254
Qy	5311	ATTTGAATGAGAGGTACCTGACATCTTTTGAATTCCTTTCAAGCAAGGATTAATTT	5370
Db	4255	-----	4254
Qy	5371	ACCATGAGTGAAGTCAAGAAACATAAAAGATTTGTTGCTCTGCTCAGAGTTTATC	5430
Db	4255	-----	4254

Qy	5431	TAACTCATTCTCCTCTTATTCATGATGAATGACATAAATGAGGTTTTTATTGTG	5490
Db	4255	-----	4254
Qy	5491	TTGTTGTTTTCTGGACACAAGGCAAGTAGCTACCTGGGCAAGCTGTTTTATTCT	5550
Db	4255	-----	4254
Qy	5551	CTATGCCGTGGAGAAAAATTGGTTAAATGGCCATGAAGGCAAGTCATTAAAGATGTTCCCA	5610
Db	4255	-----	4254
Qy	5611	TGCGAGTGAATTTCCAGGGTCCAGCTTCTGCATCTTCCCTGTCCCTCAATTCATT	5670
Db	4255	-----	4254
Qy	5671	GTGTTGATGACATGTCTCTCCCATCAGCTCATGAAGTTCTCTCTCATTTTAAAT	5730
Db	4255	-----	4254
Qy	5731	TTGCTTTCAGGAAAAATTTTGAATGTGCCAGTAATGCTGATTGGCCCTTATCTTA	5790
Db	4255	-----	4254
Qy	5791	AAGGCTTAACTGGAGGAAGAACTAAACTGAGAAATCTTGCAAAATCATTGAGCAAAA	5850
Db	4255	-----	4254
Qy	5851	ACGTATTAAATAGCAAGATCTATCATTTATTGACTAGTATGTGGCAGCAGTGCCCTTTTA	5910
Db	4255	-----	4254
Qy	5911	TTTAGGCAAGGAGTTCATGGGGGGGGGTTTCAACATCTTAAAGAGTGCTATCT	5970
Db	4255	-----	4254
Qy	5971	CCTCTATATAATCACTGAAGTCAAGAGAGTAAGGAATTTGTTTGGTTATATTC	6030
Db	4255	-----	4254
Qy	6031	AGGGATTAGATATACAGTAGAAGATCCCAAGAACTTGGGATCATTTAGACTAAGA	6090
Db	4255	-----	4254
Qy	6091	AATGCCAATACCGCGCGCGGTGCTCACGCTGTAATCCAGCACTTTGAGAGCCG	6150
Db	4255	-----	4254
Qy	6151	AGGTGGCGGATCACAGGTCAAGGATTCAGACCGTCTGCTAACGTGTTGAAACCTT	6210
Db	4255	-----	4254
Qy	6211	GTCTCTATAAATAACAAAAATTAGCCGGCGTGGTGGCGGCGCTGTAGTCCAGC	6270
Db	4255	-----	4254
Qy	6271	TACTCGGAGCGGAGGACGAGAAATGGTGAACCTCAGGAGCGGAGCTTCAGTCAGC	6330
Db	4255	-----	4254
Qy	6331	CGAGATTGCCCAATGCACTCCAGCTGGGCGACAGACGAGACTCCGCTCAGAACAA	6390
Db	4255	-----	4254





db	5002	 TTCTCTTCAAAATCTTGACATTTAAATCAATCAGAAATTTGATTTTTGGAAACCTGTTTCC	103535500-11_vs_103535500a11na.txt	5061
QY	8311	 TATGAAGCTATCTCTGCCCTGAAGGATTTTTCTTTTACAATCCAGACTATAGAAGAAATT		8370
db	5062	 TATGAAGCTATCTCTGCCCTGAAGGATTTTTCTTTTACAATCCAGACTATAGAAGAAATT		5121
QY	8371	 CACAACCTGGAACTTTCACTCTCAATGGTGCAGAGTTTACTGACCAATTTCCCACTCTGCC		8430
db	5122	 CACAACCTGGAACTTTCACTCTCAATGGTGCAGAGTTTACTGACCAATTTCCCACTCTGCC		5181
QY	8431	 TTACACCTAAGCGAAGTTATGCTCTTTTCTCTCACATACCCCAACAGATTACAAATGG		8490
db	5182	 TTACACCTAAGCGAAGTTATGCTCTTTTCTCTCACATACCCCAACAGATTACAAATGG		5241
QY	8491	 TTGTATTATTAAGCATCTTTATTTTGTGGCTCTGATTTACATAGTCCCCAAATTTTG		8550
db	5242	 TTGTATTATTAAGCATCTTTATTTTGTGGCTCTGATTTACATAGTCCCCAAATTTTG		5301
QY	8551	 ACCTAACTCACAAGAAATGGTAAATTTCTTTAAACATATTAATTAATTTGTTATGTGT		8610
db	5302	 ACCTAACTCACAAGAAATGGTAAATTTCTTTAAACATATTAATTAATTTGTTATGTGT		5361
QY	8611	 CAATATCTTAGCATGTATCAATTTAGACAGAGGTCTTAAGTCTCTCTTTTGAAGAGAA		8670
db	5362	 CAATATCTTAGCATGTATCAATTTAGACAGAGGTCTTAAGTCTCTCTTTTGAAGAGAA		5421
QY	8671	 TATTAGGATTCAGAGATATTAAGAGATTTCTCCAGGATCAGAGTTAGGTAAACAGAGCTGG		8730
db	5422	 TATTAGGATTCAGAGATATTAAGAGATTTCTCCAGGATCAGAGTTAGGTAAACAGAGCTGG		5481
QY	8731	 ATTTTAGTCCAGGCTGTCTCAGAGCTTAACGTTATATACACCTTTTGTTAAATGTGCAC		8790
db	5482	 ATTTTAGTCCAGGCTGTCTCAGAGCTTAACGTTATATACACCTTTTGTTAAATGTGCAC		5541
QY	8791	 GAATTCAGCATAAAGGAGATCTTCAGTGAATCTAAGTCAGGGGTGACCAACCTTTTCTAAAA		8850
db	5542	 GAATTCAGCATAAAGGAGATCTTCAGTGAATCTAAGTCAGGGGTGACCAACCTTTTCTAAAA		5601
QY	8851	 AGGACCAATAGTAAATATTTTCAGGCTTTTGTGGACCTCTATGGTCTCTATCATAACTGTTCA		8910
db	5602	 AGGACCAATAGTAAATATTTTCAGGCTTTTGTGGACCTCTATGGTCTCTATCATAACTGTTCA		5661
QY	8911	 AATTCACCATGTAGTGTAAAAAGGAGCATAAGCAAAAATAAACTAACCAATGTGGCTGTT		8970
db	5662	 AATTCACCATGTAGTGTAAAAAGGAGCATAAGCAAAAATAAACTAACCAATGTGGCTGTT		5721
QY	8971	 TTATGGGATTTTTTTTTAACTCTTTATTTACAAAGCAGGTGGCAGATCAGAACTCACTT		9030
db	5722	 TTATGGGATTTTTTTTTAACTCTTTATTTACAAAGCAGGTGGCAGATCAGAACTCACTT		5781
QY	9031	 ATGGGCAATAGTCTCTGACCCCTGACCTGAGAAATCTTATTTATTTGGACAACATTTA		9090
db	5782	 ATGGGCAATAGTCTCTGACCCCTGACCTGAGAAATCTTATTTATTTGGACAACATTTA		5841
QY	9091	 GACTGTGACTTGCAGGTAAAGAACAGAGCTCTCTGCAACTGAAGGTCAAGGCTGGAGTT		9150
db	5842	 GACTGTGACTTGCAGGTAAAGAACAGAGCTCTCTGCAACTGAAGGTCAAGGCTGGAGTT		5901
QY	9151	 CTGAAAGCAAGAGCTGTCTGGTGTAAATGATGAAGTGAATAGTTAAAGTTAGAAGATCC		9210
db	5902	 CTGAAAGCAAGAGCTGTCTGGTGTAAATGATGAAGTGAATAGTTAAAGTTAGAAGATCC		5961

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db 1939 ----- 1938  
QY 4627 GTTCAGGACCGCTGATCAATATGGTGAACCCAGCTTTACTGAAAAATACAAAAATCA 4686  
db 1939 ----- 1938  
QY 4687 CCCGGGTGTGTGACGGGCGCTGTAGTCCAGCTACTCGGTAGCTGAGGACGAGCAAT 4746  
db 1939 ----- 1938  
QY 4747 CACTTGAACCTCAGGAGTCAGAGGTTCAGTGAGCTGAGATCATGCCCACTGCACCTCCAGCC 4806  
db 1939 ----- 1938  
QY 4807 TGGGTGACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAAAGACTGGTTTTTCAACA 4866  
db 1939 ----- 1938  
QY 4867 GCTATCCCAACCCCTCTGCATGGAATATTACCCAGTCAATTGTTTCTAGTTGGGT 4926  
db 1939 ----- 1938  
QY 4927 AATGGCCCTCTGGGCAGGAGCTGGAGTGGGGCACAAGGAGAGCTGAAACTATGTTTATG 4986  
db 1939 ----- 1938  
QY 4987 AAGCATGTCTGGGAAATGTCTGCAAGAAAGACATATTTAAGGTAGGCTTTTCATGAA 5046  
db 1939 ----- 1938  
QY 5047 TGGAAAGGAGAGTAA TTCTATGAGAGCAGAGCTCTTACTTGCAGTCAGAGAAGCAAA 5106  
db 1939 ----- 1938  
QY 5107 AGTGGGAGCAAGAGGAATTTATGCTTTTCATCAGCCAAATTTGCAGGTAGGAGGATTGG 5166  
db 1939 ----- 1938  
QY 5167 CTCAGTCATCTTGGCTGAGGCTCATGAAACGAGGTGTAAAGAAAGTGGACTAGATTAAAT 5226  
db 1939 ----- 1938  
QY 5227 TCATCCATTACAGGAAGAGGAGCCGTGAAAGATAATCCAGAAATCATTTGGGATTGATGG 5286  
db 1939 ----- 1938  
QY 5287 TAGAAGGTATTTGGGACTATTCCATTTGAAATGGAAGGTACCTGACATTTCTTGAATT 5346  
db 1939 ----- 1938  
QY 5347 CCTTTCAAGCAAGGATTAATTTACCCTAGTTGACTCAGAAAAACATAAAAAGTAT 5406  
db 1939 ----- 1938  
QY 5407 TGTGTCTGCTCAGAGTTTATCTAACTCATTTCTACTTCTTATTCATGATGAATGA 5466  
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QY 5467 CATAAATGAGTTTTTATTTGTTGTTGTTGTTTCTGGACACAAGGCAAGGTAGCTA 5526  
db 1939 ----- 1938

QY 5527 CCTGGGCAGAGCTGTTTTATTTCTATGCGGTGGAGAGAAATTTGGTTAATTGGCCATGG 5586  
db 1939 ----- 1938  
QY 5587 AAGCAGTCATTAAGATGTTCCCATGCGAGTGAATTTTCAGGGTTCAGGCTTCTGCAT 5646  
db 1939 ----- 1938  
QY 5647 CCTTCCCTGTCCCTCAATTCATTGTTGGTGATGCAATGTCTCTCCCATCAGCTCATG 5706  
db 1939 ----- 1938  
QY 5707 AAGTCTCTCTCATTTTATTAATAATTTGCTTTTTCAGGAAAAATTTTGAAAAATGTGCCAGTA 5766  
db 1939 ----- 1938  
QY 5767 ATGCTGATTGGCCCTTATCTTAAAGGCTTAAACTGGAGGAAGAGCTAAACTGAGAA 5826  
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QY 5827 ATCTTGCAATCATTTGAGCCAAAAACGTATTAAATAGCAAGATCTATCATTTATTGACTAG 5886  
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QY 5887 TATGTGGCAGGAGTGCCCTTTTATTTAGGCAGGAGAGATTGATGGGGGGCGGGGTTT 5946  
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QY 5947 ACACATCTTAAAGAGGTGCTATCTCTCTATATAAATCATGTAAGTCAAGAGAGTAAGG 6006  
db 1939 ----- 1938  
QY 6007 AATTGTCTTTGTTTGGTTATATTCAGGGGATTAGAGTATACAGTAGAGATCCCAAGAAA 6066  
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QY 6067 CCTTGGGATCATTTTAGACTAAGAAATGCCAATACCGCGGGCGCGGTGGCTCAGGCTTG 6126  
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QY 6127 TAATCCAGCACTTTGAGAGGCGGAGGTGGGCGGATCAAGGTCAAGGAGATTGAGACCG 6186  
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QY 6187 TCCTGGCTAACGTGGTGAAACCTGTCTCTACTAAAAATACAAAAAATTAGCCGGCGTG 6246  
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QY 6247 GTGGCGGGCGCCTGTAGTCCAGCTACTCGGAGGCGGAGGAGAGAAATGTTGTGAACT 6306  
db 1939 ----- 1938  
QY 6307 CAGGAGGCGGAGCTTGCAGTGAGCCGAGATTGCCCAATGCACTCCAGCTGGGCGACAG 6366  
db 1939 ----- 1938  
QY 6367 AACGAGACTCCGTCTCAGAAACAAAAAGGAAATGCCAATACCAGCAGAAATAGAGCC 6426  
db 1939 ----- 1938  
QY 6427 AAATCATGAACATAAGCTAAACAAATGTTGGCAGTAGGCTAGTGTGTTAAGAGAGACA 6486  
db 1939 ----- 1938

Qy	6487	CTCTAACTAGAACACTGGACCTCGATGCTCTCACTAGACCTCACTGTGGGGTTCTAA	6546
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Qy	6547	TTAACCCTGTTACTTACCAGTGGCAGTCTTAAGGCATTCTTAAGTTCGTGTGCCCCA	6606
Db	1939	-----	1938
Qy	6607	ATTGTTCATCTGTAGAAGGGTAGGATGACAGTAGTGTACTTTATAGGCTTACTGTG	6666
Db	1939	-----	1938
Qy	6667	AGCATTAAATGAGTTACTACTGTATTGTAAAGTGCTTAAATGCTCTCCAAAAGAGTT	6726
Db	1939	-----	1938
Qy	6727	TGTTAAACACTTAAGAACTGATTACTTTCATCTAAACTGACAGCTCTCAATAACTGGAA	6786
Db	1939	-----	1938
Qy	6787	ATGATCAAGCATAGGCCCTGGATATAGCAGGCTTACATGAAGGCCAAAATGTTCGTTT	6846
Db	1939	-----	1938
Qy	6847	CTTTTGTTCAGCCCTGTGCTAGATCAATATCTAGTGATGCTCAAGAAATATTTGTTG	6906
Db	1939	-----	1938
Qy	6907	AATGAATCAATGAACCTACCGAGTAGTTACATAAAGAGTTCTGCATGAGTACAAATCT	6966
Db	1939	-----	1938
Qy	6967	GGGCAAGTGACCTCCAAGGAAATTTCCACTTTTAGATTCTGTGATTTCTTAAGGAACT	7026
Db	1939	-----	1938
Qy	7027	GATAAAATTGGTGTGATACAAATGTAAAAAATGTGCTATATGATTTGAGAAAACTTATT	7086
Db	1939	-----	1938
Qy	7087	TTCTCTCCCTCTTTTCT	7146
Db	1939	-----	1938
Qy	7147	TCCTTCCTCCCT	7206
Db	1939	-----	1938
Qy	7207	TTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTT	7266
Db	1939	-----	1938
Qy	7267	TTCTTTGCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTT	7326
Db	1939	-----	1938
Qy	7327	CTTTCTGCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTTCTTT	7386
Db	1939	-----	1938
Qy	7387	CATGCTGTAGATGACCTTTTCTAGTTAAAGGTTAAACAGGAAAGTGAAGCACA	7446

Db	1939	-----	1938
Qy	7447	ATTATCAAGGGTCTCCAGTCACTCCACATGTTCTTAAATCATTTATCTTTTACAGTTT	7506
Db	1939	-----	1941
Qy	7507	CATATCTCAAGGCTTTTCAATTTGGGTGAGTTGGCAATTCGCTGCCCTTTATGTGTGAC	7566
Db	1942	CATATCTCAAGGCTTTTCAATTTGGGTGAGTTGGCAATTCGCTGCCCTTTATGTGTGAC	2001
Qy	7567	AAGTGAATAAAGGAAAGAAAAAATCTCAAGTGAAGAAAAATCAGAAATCTGCGCAGCAGTT	7626
Db	2002	AAGTGAATAAAGGAAAGAAAAAATCTCAAGTGAAGAAAAATCAGAAATCTGCGCAGCAGTT	2061
Qy	7627	CCTGGGCGTTTCAAGTGTCTCCACATCACTGCTCATCAAGCCCGCAGCATCCATCTCC	7686
Db	2062	CCTGGGCGTTTCAAGTGTCTCCACATCACTGCTCATCAAGCCCGCAGCATCCATCTCC	2121
Qy	7687	TTGCTCATCTTACACCTGTGTGCATGACAGGCCCGCCATTCATTTATCAGAGCAAGGC	7746
Db	2122	TTGCTCATCTTACACCTGTGTGCATGACAGGCCCGCCATTCATTTATCAGAGCAAGGC	2181
Qy	7747	TTCTCCACTATTTGGTTCACCCCTCTACTTAGCCAGATATCAAGAAATATCTGCAAGGA	7806
Db	2182	TTCTCCACTATTTGGTTCACCCCTCTACTTAGCCAGATATCAAGAAATATCTGCAAGGA	2241
Qy	7807	TGACCTGCTCACTGGAGCTCAGAGGAGCTCAGATTCCATTACTATCGCAAGGAGAC	7866
Db	2242	TGACCTGCTCACTGGAGCTCAGAGGAGCTCAGATTCCATTACTATCGCAAGGAGAC	2301
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Db	2302	AGATCTCCAGCAAGAAATGACAGAAAAAGACTAACTGCCCCCAAAATCTCCCTTCAAAAC	2361
Qy	7927	ACAGTTCTCTTAATCTTCCCAAGAAACCAAGATGTGACTGCTCACCCTCTTAAGGACCTG	7986
Db	2362	ACAGTTCTCTTAATCTTCCCAAGAAACCAAGATGTGACTGCTCACCCTCTTAAGGACCTG	2421
Qy	7987	AAAACACTGGCCATTTGAGCTATTTAAATCAACTTTTAAAAAATCCAAACGCCAAATAT	8046
Db	2422	AAAACACTGGCCATTTGAGCTATTTAAATCAACTTTTAAAAAATCCAAACGCCAAATAT	2481
Qy	8047	TAAACCATTTGGTGGAAATGATAACTAACTGCTGCTGACAGCTGCTTCTGCTAGGT	8106
Db	2482	TAAACCATTTGGTGGAAATGATAACTAACTGCTGCTGACAGCTGCTTCTGCTAGGT	2541
Qy	8107	GCAAAAATGGAAAAAATACTCTAATCAGGTCAAAATCACTCTACCTTTGGGATTCTA	8166
Db	2542	GCAAAAATGGAAAAAATACTCTAATCAGGTCAAAATCACTCTACCTTTGGGATTCTA	2601
Qy	8167	AATTTACTCATATTTCTCAAGAAATATTTCAAGTATAGTGGGAAAAATAGGATTATCC	8226
Db	2602	AATTTACTCATATTTCTCAAGAAATATTTCAAGTATAGTGGGAAAAATAGGATTATCC	2661
Qy	8227	TTTAGCTCGATAAGCAACAGAGTCTTCTCTTCAAAATCTTGACATTTAATCAATCAGAA	8286
Db	2662	TTTAGCTCGATAAGCAACAGAGTCTTCTCTTCAAAATCTTGACATTTAATCAATCAGAA	2721
Qy	8287	ATTGATTTTGGAAAACTGTTTCTTCAATGAGCTATCTGCTGAGGATTTTCTTTA	8346
Db	2722	ATTGATTTTGGAAAACTGTTTCTTCAATGAGCTATCTGCTGAGGATTTTCTTTA	2781
Qy	8347	CAATCAGACTATAGAAAGGAAATTCACACCTGGAGCTTTCACCTCTCATCTGCTGAGGTTT	8406

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2782 CAATCAGACTATAGAGGAAATTCACAACTGGACTTCACCTCCATTTGGTCAGAGTTT 2841

8407 TACTGACCAATCCCACTCTGCCTTACACCTAACGGAAGTTTATGCTGTTTCTCTTC 8466

2842 TACTGACCAATCCCACTCTGCCTTACACCTAACGGAAGTTTATGCTGTTTCTCTTC 2901

8467 ACATACCCCAACAGTACAAATGGTGTATTAAAGCATCTTTATTTGTGGCTCT 8526

2902 ACATACCCCAACAGTACAAATGGTGTATTAAAGCATCTTTATTTGTGGCTCT 2961

8527 GATTACATGGTCCCTAAATTTTACCTAATACAAAAGATTGTAAAATTTCTTAACAT 8586

2962 GATTACATGGTCCCTAAATTTTACCTAATACAAAAGATTGTAAAATTTCTTAACAT 3021

8587 ATTAATAATATTTGTTATGTCTCAATATCTTAGCATGTATCAATTAAGACAGAGTCT 8646

3022 ATTAATAATATTTGTTATGTCTCAATATCTTAGCATGTATCAATTAAGACAGAGTCT 3081

8647 TAAGCTTCTCTTTTGAAGAGAAATATAGGATTCAGAGATATTAAGAGATTCTCCAGG 8706

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3142 ATCAAGTTAGTAAACAGAGCTGGATTTTATGTCAGGCTGTCTACAGCTCTAAAGTATA 3201

8767 TACACCTTTGTATAACA TGTCAAGATTCAGCATAAAGGATCTTCAGTGATCTAAGTC 8826

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9127 CAACCTGAAGCTCAAGGCTGGAGTCTGAAAGCAAAAGAGCTGTCTGGTGTATGATAAGT 9186

3562 CAACCTGAAGCTCAAGGCTGGAGTCTGAAAGCAAAAGAGCTGTCTGGTGTATGATAAGT 3621

9187 GAAATAGTTAAAGTTAGAAATCCAGTTATAGAGCAACAAGAAATATGACCATAGAC 9246

3622 GAAATAGTTAAAGTTAGAAATCCAGTTATAGAGCAACAAGAAATATGACCATAGAC 3681

9247 TCTTGAAACAAGAAATGTCTGGACTCTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCT 9306

3682 TCTTGAAACAAGAAATGTCTGGACTCTGGCTTGGCTTGGCTTGGCTTGGCTTGGCTTGGCT 3741

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9307 GTTACCTAATCTCTCAGGCTCATTTTCTTATGATTAATGAAGATTAATAAAGTATT 9366

3742 GTTACCTAATCTCTCAGGCTCATTTTCTTATGATTAATGAAGATTAATAAAGTATT 3801

9367 TTCTCTCAGAGAGCTGTAAAGATAAATCAGCTAACCCATGTCAAGCACATAGAAATAGGC 9426

3802 TTCTCTCAGAGAGCTGTAAAGATAAATCAGCTAACCCATGTCAAGCACATAGAAATAGGC 3861

9427 CCAGCTATATTAATTTATCAATAAATGCCAG 9458

3862 CCAGCTATATTAATTTATCAATAAATGCCAG 3893

RESULT 6

US-10-535-500A-7

Sequence 7, Application US/10535500A

GENERAL INFORMATION:

APPLICANT: RIGSHOSPITAL

APPLICANT: Henrik Leffers

APPLICANT: Anne Mette Buhl Hertz

TITLE OF INVENTION: Methods and kits for diagnosing and

FILE REFERENCE: P34546U01

CURRENT APPLICATION NUMBER: US/10/535,500A

PRIOR FILING DATE: 2005-05-18

PRIOR APPLICATION NUMBER: DK/PA 200201792

NUMBER OF SEQ ID NOS: 43

SOFTWARE: FastSeq for windows Version 4.0

SEQ ID NO 7

LENGTH: 2817

TYPE: DNA

ORGANISM: homo sapiens

US-10-535-500A-7

Query Match 20.7%; Score 1956; DB 1; Length 2817;

Best Local Similarity 99.5%; Pred. No. 6e-17;

Matches 1962; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 7487 ATATCTCTTTTACAGTTTCATATCTCAGGCTTTTCAATGGGTGAGTTGGCAATTCG 7546

DB 846 ACTGATTAGAAAAAATTTTATATCTCAGGCTTTTCAATGGGTGAGTTGGCAATTCG 905

QY 7547 CTGCTCTTTTATGTGTGACAGTGAAGTAAAGGAAAAAAGTCAAGTGAAGAAAA 7606

DB 906 CTGCTCTTTTATGTGTGACAGTGAAGTAAAGGAAAAAAGTCAAGTGAAGAAAA 965

QY 7607 TCAGAACTCTGCCAGCAGTTCTTGGGCTTTTCAAGTGTCTTCCACATCAGCTGCTCATC 7666

DB 966 TCAGAACTCTGCCAGCAGTTCTTGGGCTTTTCAAGTGTCTTCCACATCAGCTGCTCATC 1025

QY 7667 AAGCCCCAGCATCTCTCTGCTCATCTTACACCTGTGTGATGACAGGCCCATC 7726

DB 1026 AAGCCCCAGCATCTCTCTGCTCATCTTACACCTGTGTGATGACAGGCCCATC 1085

QY 7727 TCATTTATCAGAGCAAGGCTCTCCACTATTCTGGTTCACCCCTACTTAGCCAGATA 7786

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QY 7787 TACAAGAAATCTGACGGATGACCTGCTCACTGGGAGCTCAGAGGAGCTCAGATTCC 7846

DB 1146 TACAAGAAATCTGACGGATGACCTGCTCACTGGGAGCTCAGAGGAGCTCAGATTCC 1205

QY 7847 ATTACTGCGACCAAGGACAGATCTCCAGCAGAGATGACAGAAAGACTTAAGTCCGCC 7906  
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QY 7907 CAAATCTCCCTTCCAAAACACAGTCTCTTAATTTCTCCAGAAACAGAGATGTGACTG 7966  
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QY 1326 CTCACCTCTCTAAGGACCTGAAAACCAACTGGCCATTTTCAAGTATTTAAATCAACTTTAAA 1385  
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QY 8027 AAATCCAAACCCCAAAATATTAACCAATTTTGGTTGGAATGATAACATAACTAACCTGCT 8086  
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QY 8207 GGGGAAATAGGATTTCTTTAGCTCGATAAGCAACAGAAAGTTCTTCTTCAAAATCT 8266  
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QY 1566 GGGGAAATAGGATTTCTTTAGCTCGATAAGCAACAGAAAGTTCTTCTTCAAAATCT 1625  
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QY 8267 TGACATTAATCAATCAGAAATTTGATTTTTGGAAAACCTGTTCTTGAAGCTATCTGTG 8326  
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QY 8447 TTATGCTGTTTCTCTGACATACCCCAAGTACAAATGGTTGTTATTAATGAAGA 8506  
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QY 1806 TTATGCTGTTTCTCTGACATACCCCAAGTACAAATGGTTGTTATTAATGAAGA 1865  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 8507 TCTTTATTTTGTGGCTCTGATTACATGTTGCCCTAAATTTTGACCTTAATCAAAAGA 8566  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 1866 TCTTTATTTTGTGGCTCTGATTACATGTTGCCCTAAATTTTGACCTTAATCAAAAGA 1925  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 8567 TTGTTAAATTTCTTAACATATTAATATTTTGTATGTTCAATATCTTAGCATGT 8626  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 1926 TTGTTAAATTTCTTAACATATTAATATTTTGTATGTTCAATATCTTAGCATGT 1985  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 8627 ATCAATTAAGACAGAGTCTTAAGTCTCTTTTGAAGAGAAATTAAGGATTCAGAGA 8686  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 1986 ATCAATTAAGACAGAGTCTTAAGTCTCTTTTGAAGAGAAATTAAGGATTCAGAGA 2045  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 8687 TATTAAGAGATTTCTCCAGGATCAGATTAGTAAAGAGCTGGATTTAGTCCAGTCT 8746  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 2046 TATTAAGAGATTTCTCCAGGATCAGATTAGTAAAGAGCTGGATTTAGTCCAGTCT 2105  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 8747 GTCTAGCTCTAAGCTATATACACCTTTGTATATACATGTCCAGAAATTCAGGATAAAG 8806  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

Db 2106 GTCTACAGCTCTAACGTATATACACCTTTGTATTAACATGTCAAGATTCAGCATAAAGG 2165  
QY 8807 GATCTTCAGTGATCTAAGTCAGGGGTGAGCAACCTTTTCTAAAAGGACCAATAGTAAT 8866  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 2166 GATCTTCAGTGATCTAAGTCAGGGGTGAGCAACCTTTTCTAAAAGGACCAATAGTAAT 2225  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 8867 ATTTGAGGCTTTTGGACCTATGCTCTATCATAACTGTTCAAAATCACCATGATGTG 8926  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 2226 ATTTGAGGCTTTTGGACCTATGCTCTATCATAACTGTTCAAAATCACCATGATGTG 2285  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 8927 AAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGCTGTTTATGGGATTTTTTT 8986  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 2286 AAAAGGAGCCATAAGCAAAATATAAACTAACGAATGTGGCTGTTTATGGGATTTTTTT 2345  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 8987 TAACCTCTTTATACAAAAGCAGGTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTC 9046  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 2346 TAACCTCTTTATACAAAAGCAGGTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTC 2405  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 9047 TGACCCCTGACCTGAGAAAATCTTATTTATGGAAACATTTAGACTGTGACTTGGCAA 9106  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 2406 TGACCCCTGACCTGAGAAAATCTTATTTATGGAAACATTTAGACTGTGACTTGGCAA 2465  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 9107 GTAAGAACAAAGAGCTCTGTCAACTGAAGGTCAAGGCTGGAGTTCTGAAAGCAAGAGCT 9166  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 2466 GTAAGAACAAAGAGCTCTGTCAACTGAAGGTCAAGGCTGGAGTTCTGAAAGCAAGAGCT 2525  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 9167 GTCTGGTGTAAATGATAAGTGAATAGTTAAAGTTAGAAGTCCCAAGTTATAAGAAAGCAC 9226  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 2526 GTCTGGTGTAAATGATAAGTGAATAGTTAAAGTTAGAAGTCCCAAGTTATAAGAAAGCAC 2585  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 9227 AAAGAAATGAACCATAGACTCTGAAACAGAAATGTCTGGAATCTTGGCTTAGGCACTCT 9286  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 2586 AAAGAAATGAACCATAGACTCTGAAACAGAAATGTCTGGAATCTTGGCTTAGGCACTCT 2645  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 9287 TGTGTATGTTCCAGGCCAAGTTACCTTAATCTTCCAGGCTCCATTTTCTTATCAATAA 9346  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 2646 TGTGTATGTTCCAGGCCAAGTTACCTTAATCTTCCAGGCTCCATTTTCTTATCAATAA 2705  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 9347 ATGAAGATTAATAAGTATTTTCTCAGAGAGCTGTAAAGATTAACCTGAGCTAACCCATG 9406  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 2706 ATGAAGATTAATAAGTATTTTCTCAGAGAGCTGTAAAGATTAACCTGAGCTAACCCATG 2765  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 9407 TCAAGCACATAGATAGGCCAGCCAGCTATATTAATTTATCAATAAATGCCAG 9458  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||  
QY 2766 TCAAGCACATAGATAGGCCAGCCAGCTATATTAATTTATCAATAAATGCCAG 2817  
Db |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

## RESULT 7

US-10-535-500A-10  
: Sequence 10, Application US/10535500A  
: GENERAL INFORMATION:  
: APPLICANT: Rigshospitalet  
: APPLICANT: Henrik Leffers  
: APPLICANT: Anne Mette Buhl Hertz  
: APPLICANT: Jorgen Kjem  
: TITLE OF INVENTION: Methods and kits for diagnosing and  
: FILE REFERENCE: P34546091  
: CURRENT APPLICATION NUMBER: US/10/535, 500A  
: PRIOR FILING DATE: 2005-05-18  
: PRIOR FILING DATE: 2002-11-19  
: NUMBER OF SEQ ID NOS: 43

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SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 10  
LENGTH: 1955  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-535-500A-10

Query Match  
Best Local Similarity 100.0%; Pred. No. 8.7e-17; Length 1955;  
Matches 1955; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7504 TTTCATATCTCCAGGCTTTTCATGGGTGAGTTGGCATTTGCGTCCCTTTATGTGTG 7563  
DB 1 TTTCATATCTCCAGGCTTTTCATGGGTGAGTTGGCATTTGCGTCCCTTTATGTGTG 60  
QY 7564 GACAGGTGAAATAGGAAAGAAAAAATCAAGTGAAGAAATCAGATCTGGCAGCA 7623  
DB 61 GACAGGTGAAATAGGAAAGAAAAAATCAAGTGAAGAAATCAGATCTGGCAGCA 120  
QY 7624 GTTCTGGGGGTTTCAGTCTGTTCCACATCAGCTGCTGATCAAGCCCGCAGCATCATC 7683  
DB 121 GTTCTGGGGGTTTCAGTCTGTTCCACATCAGCTGCTGATCAAGCCCGCAGCATCATC 180  
QY 7684 TCTTGTCTCATCTTACACCTGTGTGATGACAGGCCCAACATTCATTTATCAGACAA 7743  
DB 181 TCTTGTCTCATCTTACACCTGTGTGATGACAGGCCCAACATTCATTTATCAGACAA 240  
QY 7744 GGTCTCTCCACTATTTGTTTCAACCCCTACTTACCCAGATATACAGAAATCTGCAC 7803  
DB 241 GGTCTCTCCACTATTTGTTTCAACCCCTACTTACCCAGATATACAGAAATCTGCAC 300  
QY 7804 GGATGACCTGCTCACTGGGAGCTCAGAGGCTCAGATTCATTAATCTATCGCCCAAG 7863  
DB 301 GGATGACCTGCTCACTGGGAGCTCAGAGGCTCAGATTCATTAATCTATCGCCCAAG 360  
QY 7864 GACAGATCTCCAGCAAGATGACAGAAAGACTTAAGTCCGCTCCCTCCAA 7923  
DB 361 GACAGATCTCCAGCAAGATGACAGAAAGACTTAAGTCCGCTCCCTCCAA 420  
QY 7924 AACAGGTTCTTAAATCTCCAGAAACAGAAATGAGTGTGACTGCTCACTCTCTAAGGAC 7983  
DB 421 AACAGGTTCTTAAATCTCCAGAAACAGAAATGAGTGTGACTGCTCACTCTCTAAGGAC 480  
QY 7984 CTGAAAACAACTGGCCATTTTCAGCTATTTAAATCAACTTTAAAAATCCAAACCCCAAA 8043  
DB 481 CTGAAAACAACTGGCCATTTTCAGCTATTTAAATCAACTTTAAAAATCCAAACCCCAAA 540  
QY 8044 TATTAACCAATTTGTTTGGAAATGATAACATAACTTAACTGCTGACAGTGTCTGCTA 8103  
DB 541 TATTAACCAATTTGTTTGGAAATGATAACATAACTTAACTGCTGACAGTGTCTGCTA 600  
QY 8104 GGTGCAAAATGGAAAAAATACTCTTAATCAGGTCAAAATCACTCACTCTGGGATT 8163  
DB 601 GGTGCAAAATGGAAAAAATACTCTTAATCAGGTCAAAATCACTCACTCTGGGATT 660  
QY 8164 CTAAATTTACTCATATTTCAAGAAATATATTCAGTATAGTGGGAAATAGGATAT 8223  
DB 661 CTAAATTTACTCATATTTCAAGAAATATATTCAGTATAGTGGGAAATAGGATAT 720  
QY 8224 TCTTTAGCTCGATAAGCAACAGAGTTCTTCTTCAATCTTGACATTTAATCAATCA 8283  
DB 721 TCTTTAGCTCGATAAGCAACAGAGTTCTTCTTCAATCTTGACATTTAATCAATCA 780

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QY 8284 GAAATTGATTTTGGAAACCTGTTTCTTATGAAGCTATCTCTGCTGAAGGATTTTCTT 8343  
DB 781 GAAATTGATTTTGGAAACCTGTTTCTTATGAAGCTATCTCTGCTGAAGGATTTTCTT 840  
QY 8344 TTACAATCCAGACTATAGAAGAAATTCACAACCTGGACTTTCACCTCCATTGGTCAGAG 8403  
DB 841 TTACAATCCAGACTATAGAAGAAATTCACAACCTGGACTTTCACCTCCATTGGTCAGAG 900  
QY 8404 TTTTACTGACCAATTTCCACCTCTGCTTACACCTAACCGAAGTTTATGCTGTTTCTC 8463  
DB 901 TTTTACTGACCAATTTCCACCTCTGCTTACACCTAACCGAAGTTTATGCTGTTTCTC 960  
QY 8464 TTCAATACCCCAACAGTTACAATGGTTGTTTATTAAGCATCTTTTATTTGTGGCC 8523  
DB 961 TTCAATACCCCAACAGTTACAATGGTTGTTTATTAAGCATCTTTTATTTGTGGCC 1020  
QY 8524 TCTGATTAGTGGTCCCTAAATTTTACCTTAATCAAAAGATTTGCTAAATTTCTAA 8583  
DB 1021 TCTGATTAGTGGTCCCTAAATTTTACCTTAATCAAAAGATTTGCTAAATTTCTAA 1080  
QY 8584 CATATTAATAATTTTGTGTTATGTCAATATCTTAGCATGTATCAATTAAGACAGAG 8643  
DB 1081 CATATTAATAATTTTGTGTTATGTCAATATCTTAGCATGTATCAATTAAGACAGAG 1140  
QY 8644 TCTTAAGCTTCTTTTGAAGAGAAATTTAGGATTCAGAGATTTAAGAGATTTCTCC 8703  
DB 1141 TCTTAAGCTTCTTTTGAAGAGAAATTTAGGATTCAGAGATTTAAGAGATTTCTCC 1200  
QY 8704 AGGATCAGCTAGGTAAACAGAGTGGATTTTGTGCTCAGGTCTGTCTACAGCTCTAAC 8763  
DB 1201 AGGATCAGCTAGGTAAACAGAGTGGATTTTGTGCTCAGGTCTGTCTACAGCTCTAAC 1260  
QY 8764 ATATACACCTTTGTATAACATGTCAAGATTCAGCAATAAGGATCTTCAGTGAATCTAA 8823  
DB 1261 ATATACACCTTTGTATAACATGTCAAGATTCAGCAATAAGGATCTTCAGTGAATCTAA 1320  
QY 8824 GTGAGGGTCAACACCTTTTCTAAAAAGGACCAATAGTAAATTTTCAAGCTTTTGGGA 8883  
DB 1321 GTGAGGGTCAACACCTTTTCTAAAAAGGACCAATAGTAAATTTTCAAGCTTTTGGGA 1380  
QY 8884 CCTATGCTCTCTATCAACTGTTCAATCAACATCAACATGTAAGTGTAAAAAGGACCAATAGCA 8943  
DB 1381 CCTATGCTCTCTATCAACTGTTCAATCAACATCAACATGTAAGTGTAAAAAGGACCAATAGCA 1440  
QY 8944 AAATATAAATCAACGAATGTGGCTGTTTATGGGATTTTTTTTTTAACTCTTTTATTAACA 9003  
DB 1441 AAATATAAATCAACGAATGTGGCTGTTTATGGGATTTTTTTTTTAACTCTTTTATTAACA 1500  
QY 9004 AAGCAGGTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTGACCCCTGACCTGAGA 9063  
DB 1501 AAGCAGGTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTGACCCCTGACCTGAGA 1560  
QY 9064 AAATCTTATATTATGGCAACATTTAGACTGTGACTTCCCAAGTAAGAAAGCAAGCTC 9123  
DB 1561 AAATCTTATATTATGGCAACATTTAGACTGTGACTTCCCAAGTAAGAAAGCAAGCTC 1620  
QY 9124 TGTCAACTGAAGCTCAAGCTGGAGTTCTGAAGCAAGAGCTGTCTGTTTAAATATA 9183  
DB 1621 TGTCAACTGAAGCTCAAGCTGGAGTTCTGAAGCAAGAGCTGTCTGTTTAAATATA 1680  
QY 9184 AGTGAATAGTTAAAGTTAGAGATCCAGTTTAAAGAGCAAAAGATAATGACCATTA 9243  
DB 1681 AGTGAATAGTTAAAGTTAGAGATCCAGTTTAAAGAGCAAAAGATAATGACCATTA 1740

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QY 9244 GACTCTGAACAAGATGTCTGGACTTCTGGCTTAGGCACTCTGTGTATGTCTGAGC 9303
Db 1741 GACTCTGAACAAGATGTCTGGACTTCTGGCTTAGGCACTCTGTGTATGTCTGAGC 1800
QY 9304 CAAGTTACTTAATCTCTGAGGCTCTCATTTCTTATCAATTAAGATAATAAAGT 9363
Db 1801 CAAGTTACTTAATCTCTGAGGCTCTCATTTCTTATCAATTAAGATAATAAAGT 1860
QY 9364 ATTTCTCTGAGAGCTGTGAAGATAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 9423
Db 1861 ATTTCTCTGAGAGCTGTGAAGATAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT 1920
QY 9424 GCGCCAGCTATATAATTTATCAATAAATGCCAG 9458
Db 1921 GCGCCAGCTATATAATTTATCAATAAATGCCAG 1955
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RESULT 8

US-10-535-500A-16

Sequence 16: Application US/10535500A

GENERAL INFORMATION:

APPLICANT: Rigshospitalet

APPLICANT: Henrik Leffers

APPLICANT: Anne Mette Buhl Hertz

APPLICANT: Jorgen Kjems

TITLE OF INVENTION: Methods and kits for diagnosing and

FILE OF INVENTION: treating B-cell chronic lymphocytic leukemia (B-CLL)

FILE REFERENCE: P34546US01

CURRENT APPLICATION NUMBER: US/10/535,500A

PRIOR FILING DATE: 2005-05-18

PRIOR APPLICATION NUMBER: DK/PA 200201792

PRIOR FILING DATE: 2002-11-19

NUMBER OF SEQ ID NOS: 43

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 16

LENGTH: 1955

TYPE: DNA

ORGANISM: Homo Sapiens

US-10-535-500A-16

Query Match 20.7%; Score 1955; DB 1; Length 1955;

Best Local Similarity 100.0%; Pred. No. 8.7e-17;

Matches 1955; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7504 TTTCATATCTCAGGCGCTTTTCATTTGGGTGAGTGGGATTTGGCTGCTTTATGTGT 7563

Db 1 TTTCATATCTCAGGCGCTTTTCATTTGGGTGAGTGGGATTTGGCTGCTTTATGTGT 60

QY 7564 GACAAAGTAAAGGAAAGGAAAGGAAAGGAAAGTCAAGTGAAGAAATCAGAAATCTGCGCAGCA 7623

Db 61 GACAAAGTAAAGGAAAGGAAAGGAAAGGAAAGTCAAGTGAAGAAATCAGAAATCTGCGCAGCA 120

QY 7624 GTTCTGGGGGTTTCAGCTGCTTCCACATCACCTGCTCATCAAGGCCCGAGATCCATC 7683

Db 121 GTTCTGGGGGTTTCAGCTGCTTCCACATCACCTGCTCATCAAGGCCCGAGATCCATC 180

QY 7684 TCTTGTCTCATCTACACCTGTGTGATGAGAGCCGACCATTTATCAGAGCAA 7743

Db 181 TCTTGTCTCATCTACACCTGTGTGATGAGAGCCGACCATTTATCAGAGCAA 240

QY 7744 GGGTCTCCGATTTCTGGTTACCCCTTACTACCGAGATATCAAGAAATCTCGAC 7803

Db 1 GGGTCTCCGATTTCTGGTTACCCCTTACTACCGAGATATCAAGAAATCTCGAC 1955

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Db 241 GGCTCTCCCACTATTCTGGTTCACCCCTCTACTTAGCCAGATATACAAGAAATCTGAC 300
QY 7804 GGATGACCTGGCTCACTGGGAGCTCAGAGGAGCTCAGATTCCATTACTATCGACCAAG 7863
Db 301 GGATGACCTGGCTCACTGGGAGCTCAGAGGAGCTCAGATTCCATTACTATCGACCAAG 360
QY 7864 GACAGATCTCCAGCAAGATGACAGAAAGAGCTAACTGCCCCCAAAATCTCCCTCCAA 7923
Db 361 GACAGATCTCCAGCAAGATGACAGAAAGAGCTAACTGCCCCCAAAATCTCCCTCCAA 420
QY 7924 AACACAGTTCTTTAATCTCCCAAGAAACAGAAATGTGACTGCTCAGCTCTCTAAGGAC 7983
Db 421 AACACAGTTCTTTAATCTCCCAAGAAACAGAAATGTGACTGCTCAGCTCTCTAAGGAC 480
QY 7984 CTGAAAAACAACCTGGCCATTTCAGCTATTTAAATCACTTTAAAAATCCAAACGCCAAAA 8043
Db 481 CTGAAAAACAACCTGGCCATTTCAGCTATTTAAATCACTTTAAAAATCCAAACGCCAAAA 540
QY 8044 TATTAAACCATTTTGGTGGAAATGATACATAACTTAACCTGCTGACAGCTCTCTGCTA 8103
Db 541 TATTAAACCATTTTGGTGGAAATGATACATAACTTAACCTGCTGACAGCTCTCTGCTA 600
QY 8104 GGTGCAAAATGGAAAAAATACTTCTAATCAGGTCAATCACTCTACCTTGGGAT 8163
Db 601 GGTGCAAAATGGAAAAAATACTTCTAATCAGGTCAATCACTCTACCTTGGGAT 660
QY 8164 CTAATTTACTCATATTCTCAAGAAATATATTCAAGTGGGAAATAGGAT 8223
Db 661 CTAATTTACTCATATTCTCAAGAAATATATTCAAGTGGGAAATAGGAT 720
QY 8224 TCTTTAGCTCGATAAGCAACCAAGGTTCTTCTTCAAAATCTTGACATTAATCAATCA 8283
Db 721 TCTTTAGCTCGATAAGCAACCAAGGTTCTTCTTCAAAATCTTGACATTAATCAATCA 780
QY 8284 GAAATGATTTTTGGAAAACTGTTTCTTATGAAGCTATCTGCTGAAAGGATTTTCT 8343
Db 781 GAAATGATTTTTGGAAAACTGTTTCTTATGAAGCTATCTGCTGAAAGGATTTTCT 840
QY 8344 TTACATCCAGACTATAGAGGAAATTCACAACTGGAGTTTCACTCCATCTGTCAGAG 8403
Db 841 TTACATCCAGACTATAGAGGAAATTCACAACTGGAGTTTCACTCCATCTGTCAGAG 900
QY 8404 TTTTACTGACCAATTCACCACTCTGCTTACACTAAGGAAATTTATGCTGTTTCTC 8463
Db 901 TTTTACTGACCAATTCACCACTCTGCTTACACTAAGGAAATTTATGCTGTTTCTC 960
QY 8464 TTTACATACCCCAAGTTCACAAATGGTGTATTATTAAAGCATCTTTTATTTGTGCC 8523
Db 961 TTTACATACCCCAAGTTCACAAATGGTGTATTATTAAAGCATCTTTTATTTGTGCC 1020
QY 8524 TCTGATTACATGGTCCCTTAAATTTTGAAGGAAATTCACAAAGATTTGTAATAA 8583
Db 1021 TCTGATTACATGGTCCCTTAAATTTTGAAGGAAATTCACAAAGATTTGTAATAA 1080
QY 8584 CATATTAAATATTTTGTATGTGTCAATCTTAGAGTATCAATTAAAGCAGAGG 8643
Db 1081 CATATTAAATATTTTGTATGTGTCAATCTTAGAGTATCAATTAAAGCAGAGG 1140
QY 8644 TCTTAACGTTCTCTTTTGAAGGAAATTAGGATTCAGATATTAAGAGATCTCCC 8703
Db 1141 TCTTAACGTTCTCTTTTGAAGGAAATTAGGATTCAGATATTAAGAGATCTCCC 1200
QY 8704 AGGATCAAGTAGTAGTAAAGAGCTGGATTTTATGTCAGGCTGCTTACAGCTCTAACGT 8763
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Db 1201 AGGATACACAGTTAGGTAAACAGAGCTGGATTTTATGTCAGGCTGTGTCTACAGCTCTAAAGT 1260

Qy 8764 ATATACACCCCTTTGTATACATGTCAAGAAATCAGCATAAAGGGATCTTCAAGTGATCTAA 8823

Db 1261 ATATACACCCCTTTGTATACATGTCAAGAAATCAGCATAAAGGGATCTTCAAGTGATCTAA 1320

Qy 8824 GTCAAGGGTCAAGCAACCTTTCTAAAAAGGACCAAAATAGTAAATTTTCAAGGCTTTGTGA 8883

Db 1321 GTCAAGGGTCAAGCAACCTTTCTAAAAAGGACCAAAATAGTAAATTTTCAAGGCTTTGTGA 1380

Qy 8884 CCCTATGCTCTATCACTAATGTTCAATCACCATAGTGTAAAGGAGCCATAAGCA 8943

Db 1381 CCCTATGCTCTATCACTAATGTTCAATCACCATAGTGTAAAGGAGCCATAAGCA 1440

Qy 8944 AAATATAAATAAGCAATGCTGTTTATGGGATTTTCTTAACTCTTTTATACAA 9003

Db 1441 AAATATAAATAAGCAATGCTGTTTATGGGATTTTCTTAACTCTTTTATACAA 1500

Qy 9004 AAGCAGGTGGCAGATCAGAACTCACTTATGGGCCATAGTCTCTGACCCCTGACCTGAGA 9063

Db 1501 AAGCAGGTGGCAGATCAGAACTCACTTATGGGCCATAGTCTCTGACCCCTGACCTGAGA 1560

Qy 9064 AAATCTTATATTTATGGACAACATTTAGACTGTGACTTGCCAAAGTAAAGCAAGAAAGCTC 9123

Db 1561 AAATCTTATATTTATGGACAACATTTAGACTGTGACTTGCCAAAGTAAAGCAAGAAAGCTC 1620

Qy 9124 TGTCAACTGAAGCTCAAGGCTGGAGTCTGAAAGCAAGAGAGCTGTCTGGTGTAAATGATA 9183

Db 1621 TGTCAACTGAAGCTCAAGGCTGGAGTCTGAAAGCAAGAGAGCTGTCTGGTGTAAATGATA 1680

Qy 9184 AGTGAATAGTTAAAGTTAGAAAGTCCAGTATTAAGAGCACAAGAAATATGACCATA 9243

Db 1681 AGTGAATAGTTAAAGTTAGAAAGTCCAGTATTAAGAGCACAAGAAATATGACCATA 1740

Qy 9244 GACTCTGAAACAAGATGCTGGACTCTGGCTTAGGCACTCTTGTGTATGTCGAGC 9303

Db 1741 GACTCTGAAACAAGATGCTGGACTCTGGCTTAGGCACTCTTGTGTATGTCGAGC 1800

Qy 9304 CAAGTTACCTAATCTCTCAGGCGCTCGATTTCTTATCAATTAATGAAGATAATAAAGT 9363

Db 1801 CAAGTTACCTAATCTCTCAGGCGCTCGATTTCTTATCAATTAATGAAGATAATAAAGT 1860

Qy 9364 ATTTTCTCAGAGAGCTGAAGAATAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 9423

Db 1861 ATTTTCTCAGAGAGCTGAAGAATAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT 1920

Qy 9424 GGGCCAGCTATTAATTTATCAATAAATGCCAG 9458

Db 1921 GGGCCAGCTATTAATTTATCAATAAATGCCAG 1955

RESULT 9

US-10-535-500A-6

Sequence 6, Application US/10535500A

GENERAL INFORMATION:

APPLICANT: Rigshospitalet

APPLICANT: Henrik Leffers

APPLICANT: Anne Mette Buhl Hertz

APPLICANT: Jorgen Kjems

TITLE OF INVENTION: Methods and kits for diagnosing and

TITLE OF INVENTION: treating B-cell Chronic Lymphocytic Leukemia (B-CLL)

FILE REFERENCE: P34546U01

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CURRENT APPLICATION NUMBER: US/10/535,500A

CURRENT FILING DATE: 2005-05-18

PRIOR APPLICATION NUMBER: DK/PA 200201792

PRIOR FILING DATE: 2002-11-19

NUMBER OF SEQ ID NOS: 43

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 6

LENGTH: 2260

TYPE: DNA

ORGANISM: Homo sapiens

US-10-535-500A-6

Query Match 20.7%; Score 1955; DB 1; Length 2260;

Best Local Similarity 100.0%; Pred. No. 7, 5e-17;

Matches 1955; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7504 TTTATATCTCAGGCGCTTTTATGCTGAGTGGCATTTGGCTGCGCTTTATGTGTGT 7563

Db 306 TTTATATCTCAGGCGCTTTTATGCTGAGTGGCATTTGGCTGCGCTTTATGTGTGT 365

Qy 7564 GACAAGTGAATAAGGAAAGAAAAAACTCAAGTGAAGAAAAATCAGAAATCTGCGCAGCA 7623

Db 366 GACAAGTGAATAAGGAAAGAAAAAACTCAAGTGAAGAAAAATCAGAAATCTGCGCAGCA 425

Qy 7624 GTTCTGGGCGTTTCAAGCTGCTTCCACATCACTGCTCATCAAGCCCGCAGCATCATC 7683

Db 426 GTTCTGGGCGTTTCAAGCTGCTTCCACATCACTGCTCATCAAGCCCGCAGCATCATC 485

Qy 7684 TCTTGTCTCATCTACACCTGTGTGATGACAGGCGCCACCAATCTTATTCAGAGCAAA 7743

Db 486 TCTTGTCTCATCTACACCTGTGTGATGACAGGCGCCACCAATCTTATTCAGAGCAAA 545

Qy 7744 GGGCTCTCCAGTATCTGGTTTCAACCCCTACTTACGAGATATACAGAAATCTCGAC 7803

Db 546 GGGCTCTCCAGTATCTGGTTTCAACCCCTACTTACGAGATATACAGAAATCTCGAC 605

Qy 7804 GGGTGAAGCTGCTTCACTGGGAGCTCAGAGAGCTCAGATTTCATCTACGACCAAG 7863

Db 606 GGGTGAAGCTGCTTCACTGGGAGCTCAGAGAGCTCAGATTTCATCTACGACCAAG 665

Qy 7864 GACAGATCTCCCAAGAAATGACAGAAAGAGCTAACTGCCCCCAAAATCTCCCTTCAA 7923

Db 666 GACAGATCTCCCAAGAAATGACAGAAAGAGCTAACTGCCCCCAAAATCTCCCTTCAA 725

Qy 7924 AACACAGTCTCTTAAATTTCTCCCAAGAAAGAGCTGCTGCTCCTCTCTAAGGAC 7983

Db 726 AACACAGTCTCTTAAATTTCTCCCAAGAAAGAGCTGCTGCTCCTCTCTAAGGAC 785

Qy 7984 CTGAAAAAAGCTGGCCATTTTCAAGTAAATCAACTTTAAAAATCCAAACCGCAAAA 8043

Db 786 CTGAAAAAAGCTGGCCATTTTCAAGTAAATCAACTTTAAAAATCCAAACCGCAAAA 845

Qy 8044 TATTAACCAATTTTGGTTGAATGATTAACCTCTGCTGACAGCTGCTCTCTA 8103

Db 846 TATTAACCAATTTTGGTTGAATGATTAACCTCTGCTGACAGCTGCTCTCTA 905

Qy 8104 GGTGCAAAATGGAAGAAAAAAATCTCTTAATCAGGTCAATCACTCTACCTTTGGGATT 8163

Db 906 GGTGCAAAATGGAAGAAAAAAATCTCTTAATCAGGTCAATCACTCTACCTTTGGGATT 965

Qy 8164 CTAATTTACTCATATTTCAAGAAATATATTCAAGTATAGTGGGAAAAATAGGATTAT 8223

Db 966 CTAATTTACTCATATTTCAAGAAATATATTCAAGTATAGTGGGAAAAATAGGATTAT 1025

QY 8224 TCCTTACGTCGATGAGCAACCAAGTCTTCTCTCAATCTTGACATTTAATCAATCA 8283  
 DB 1026 TCCTTACGTCGATGAGCAACCAAGTCTTCTCTCAATCTTGACATTTAATCAATCA 1085  
 QY 8284 GAAATTTGATTTTGGAAATCTTCTCTATGAGCTATCTCTGCTGAAGATTTTCTT 8343  
 DB 1086 GAAATTTGATTTTGGAAATCTTCTCTATGAGCTATCTCTGCTGAAGATTTTCTT 1145  
 QY 8344 TTACATCCAGACTATAGAGGAAATTTGACAACTGAGCTTTTCACTTCCATTGGTCAGAG 8403  
 DB 1146 TTACATCCAGACTATAGAGGAAATTTGACAACTGAGCTTTTCACTTCCATTGGTCAGAG 1205  
 QY 8404 TTTTACTGACCAATTCACCACTCTGCTTTACACCTAACCGGAAGTTTATGCTGCTTTCTC 8463  
 DB 1206 TTTTACTGACCAATTCACCACTCTGCTTTACACCTAACCGGAAGTTTATGCTGCTTTCTC 1265  
 QY 8464 TTACATACCCCAACAGTTTCAAAATGTTTGTATTTAAGCATCTTTTATTTTGTGGCC 8523  
 DB 1266 TTACATACCCCAACAGTTTCAAAATGTTTGTATTTAAGCATCTTTTATTTTGTGGCC 1325  
 QY 8524 TCTGATTACATGTCCTTAAATTTTACCTAATCACAAGATTTGGTAAATTTCTTAA 8583  
 DB 1326 TCTGATTACATGTCCTTAAATTTTACCTAATCACAAGATTTGGTAAATTTCTTAA 1385  
 QY 8584 CATATTAATTAATTTGTTTATGTCATATCTTAGCATGTATCAATTAAGACAGAGG 8643  
 DB 1386 CATATTAATTAATTTGTTTATGTCATATCTTAGCATGTATCAATTAAGACAGAGG 1445  
 QY 8644 TCTTAAGCTTCTCTTTTGAAGAGAATTTAGGATTCAGAGATTTAAGAGATTTCTCC 8703  
 DB 1446 TCTTAAGCTTCTCTTTTGAAGAGAATTTAGGATTCAGAGATTTAAGAGATTTCTCC 1505  
 QY 8704 AGGATCAGTGTAGTAAACAGAGCTGGATTTTATGCTCAGCTCTGCTACAGCTCTAACGT 8763  
 DB 1506 AGGATCAGTGTAGTAAACAGAGCTGGATTTTATGCTCAGCTCTGCTACAGCTCTAACGT 1565  
 QY 8764 ATATACACCTTTTGTATTAACATGTCACGAATTCAGCATAAAGGGATCTTCAGTGATCTAA 8823  
 DB 1566 ATATACACCTTTTGTATTAACATGTCACGAATTCAGCATAAAGGGATCTTCAGTGATCTAA 1625  
 QY 8824 GTACGGGTGAGCAACCTTTTCTAAAAGGACCAATAGTAAATTTTACGGCTTTGTGA 8883  
 DB 1626 GTACGGGTGAGCAACCTTTTCTAAAAGGACCAATAGTAAATTTTACGGCTTTGTGA 1685  
 QY 8884 CCTTATGCTCTATCAATCTGTTCAATCACCATGTAGTGTAAAGGAGCCATAAGCA 8943  
 DB 1686 CCTTATGCTCTATCAATCTGTTCAATCACCATGTAGTGTAAAGGAGCCATAAGCA 1745  
 QY 8944 AAATATAAATCAACGAATGTGGCTGTTTATGGGATTTTTTAACTCTTTTATTAACA 9003  
 DB 1746 AAATATAAATCAACGAATGTGGCTGTTTATGGGATTTTTTAACTCTTTTATTAACA 1805  
 QY 9004 AAGCAGGTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTTGACCCCTGACCTCAGA 9063  
 DB 1806 AAGCAGGTGGCAGATCAGAACTCACTTATGGGCCATAGTTCTTGACCCCTGACCTCAGA 1865  
 QY 9064 AAATCTTATTTATGGAACAATTTAGACTGTGACTTGCCAACTAAGAAACAAGACTC 9123  
 DB 1866 AAATCTTATTTATGGAACAATTTAGACTGTGACTTGCCAACTAAGAAACAAGACTC 1925  
 QY 9124 TGTCAACTGAAGCTGAGGCTCTGAAAGCAAGAGCTCTCTGCTGTTAATGATA 9183

DB 1926 TGTCAACTGAAGGTCAAGGCTGGAGTCTTGAAGCAAAAGAGCTGTCTGCTGTTAATGATA 1985  
 QY 9184 AGTGAATAGTTAAAGTTAGAGATCCAGTATTAAAGAGCAAAAGATAAATGACCATA 9243  
 DB 1986 AGTGAATAGTTAAAGTTAGAGATCCAGTATTAAAGAGCAAAAGATAAATGACCATA 2045  
 QY 9244 GACTCTGACAAAGAAATGTCTGGACTCTGGCTTAGGCACCTCTTGTGTGTCAGGC 9303  
 DB 2046 GACTCTGACAAAGAAATGTCTGGACTCTGGCTTAGGCACCTCTTGTGTGTCAGGC 2105  
 QY 9304 CAAGTTACTTAATCTCTCCAGGCTCCATTTTCTTATCATTAATGAAGATAAATAAGT 9363  
 DB 2106 CAAGTTACTTAATCTCTCCAGGCTCCATTTTCTTATCATTAATGAAGATAAATAAGT 2165  
 QY 9364 ATTTTCTCAGAGAGCTGTAAAGATAAAGCTAGCTTAACCCATGTCAAGCATAGATAG 9423  
 DB 2166 ATTTTCTCAGAGAGCTGTAAAGATAAAGCTAGCTTAACCCATGTCAAGCATAGATAG 2225  
 QY 9424 GGGCAGGCTATATTAATTTATCAATTAATGCCAG 9458  
 DB 2226 GGGCAGGCTATATTAATTTATCAATTAATGCCAG 2260

RESULT 10  
 US-10-535-500A-15  
 : Sequence 15, Application US/10535500A  
 : GENERAL INFORMATION:  
 : APPLICANT: Rigshospitalet  
 : APPLICANT: Henrik Leffers  
 : APPLICANT: Anne Mette Buhl Hertz  
 : APPLICANT: Jorgen Kjemm  
 : TITLE OF INVENTION: Methods and kits for diagnosing and  
 : FILE OF INVENTION: treating B-cell Chronic lymphocytic leukemia (B-CLL)  
 : FILE REFERENCE: P34546US01  
 : CURRENT APPLICATION NUMBER: US/10/535,500A  
 : CURRENT FILING DATE: 2005-05-18  
 : PRIOR APPLICATION NUMBER: DK/PA 200201792  
 : PRIOR FILING DATE: 2002-11-19  
 : NUMBER OF SEQ ID NOS: 43  
 : SOFTWARE: FastSeq for Windows Version 4.0  
 : SEQ ID NO 15  
 : LENGTH: 557  
 : TYPE: DNA  
 : ORGANISM: Homo sapiens  
 : US-10-535-500A-15

Query Match 5.9%; Score 557; DB 1; Length 557;  
 Best Local Similarity 100.0%; Pred. No. 0.0019;  
 Matches 557; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3848 GGGCAAAAAGGAAAGAGACAAAACAGCATGAAATGATGAGACCAAGTGAATAATTCAT 3907  
 DB 1 GGGCAAAAAGGAAAGAGACAAAACAGCATGAAATGATGAGACCAAGTGAATAATTCAT 60  
 QY 3908 TCACAATGATTGCTTTCAAGAGTAAATTTCTCTGGGTAAATTCAGCAGCTGTACTATGG 3967  
 DB 61 TCACAATGATTGCTTTCAAGAGTAAATTTCTCTGGGTAAATTCAGCAGCTGTACTATGG 120  
 QY 3968 CTCTCTGGATGATAGCTTAATGTAATGAAGCTCTTAAAGTGAATTCCTGACAAGAA 4027  
 DB 121 CTCTCTGGATGATAGCTTAATGTAATGAAGCTCTTAAAGTGAATTCCTGACAAGAA 180  
 QY 4028 TATACTCAGCAATATGCAACAGAAATCCATTCAAAGCATTCGGGAAAAATTCAAAAGA 4087



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Qy 241 CCAGGTTCTCTGGTCTCCAGCTTGCAGATGCAGATCATGGGACTCTTGGCTCCATA 300  
 Db 241 CCAGGTTCTCTGGTCTCCAGCTTGCAGATGCAGATCATGGGACTCTTGGCTCCATA 300  
 Qy 301 ATTGTGT 307  
 Db 301 ATTGTGT 307

RESULT 13

US-10-535-500A-8  
 : Sequence 8, Application US/10535500A  
 : GENERAL INFORMATION:  
 : APPLICANT: Rigshospitalet  
 : APPLICANT: Henrik Leffers  
 : APPLICANT: Anne Mette Buhl Hertz  
 : APPLICANT: Jorgen Kjems  
 : TITLE OF INVENTION: Methods and kits for diagnosing and  
 : FILE REFERENCE: P34546US01  
 : CURRENT APPLICATION NUMBER: US/10/535,500A  
 : PRIOR FILING DATE: 2005-05-18  
 : PRIOR APPLICATION NUMBER: DK/PA 200201792  
 : NUMBER OF SEQ ID NOS: 43  
 : SOFTWARE: FastSeq for Windows Version 4.0  
 : SEQ ID NO 8  
 : LENGTH: 1970  
 : TYPE: DNA  
 : ORGANISM: Homo sapiens  
 : US-10-535-500A-8

Query Match 3.2%; Score 307; DB 1; Length 1970;  
 Best Local Similarity 100.0%; Pred. No. 0.11;  
 Matches 307; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATTGGAATTGGTGAACCTTAGTAAAGCAGACGGCTCTCACCATAAGGGCAGGCATCATCC 60  
 Db 1 ATTGGAATTGGTGAACCTTAGTAAAGCAGACGGCTCTCACCATAAGGGCAGGCATCATCC 60  
 Qy 61 AATCTGTGCGAAAGCTTGAATAAAACAAAGAGGAGGAGGAAAAATTTGCTTTCTTCT 120  
 Db 61 AATCTGTGCGAAAGCTTGAATAAAACAAAGAGGAGGAGGAAAAATTTGCTTTCTTCT 120  
 Qy 121 TGATCTAGTATATCATCTCTGCTGCTTGGATGTGAGTGGGCTTCAGACTTAAACCA 180  
 Db 121 TGATCTAGTATATCATCTCTGCTGCTTGGATGTGAGTGGGCTTCAGACTTAAACCA 180  
 Qy 181 GGAGTTACACCTTTGGCTTCCCTGCTCAGTTCTTGGACTTGGACTGAATTACACTG 240  
 Db 181 GGAGTTACACCTTTGGCTTCCCTGCTCAGTTCTTGGACTTGGACTGAATTACACTG 240  
 Qy 241 CCAGGTTTCTCTGGTCTCCAGCTTGCAGATGCAGATCATGGGACTCTTGGCTCCATA 300  
 Db 241 CCAGGTTTCTCTGGTCTCCAGCTTGCAGATGCAGATCATGGGACTCTTGGCTCCATA 300  
 Qy 301 ATTGTGT 307  
 Db 301 ATTGTGT 307

RESULT 14

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10535500-11\_vs\_10535500a11na.txt

US-10-535-500A-13  
 : Sequence 13, Application US/10535500A  
 : GENERAL INFORMATION:  
 : APPLICANT: Rigshospitalet  
 : APPLICANT: Henrik Leffers  
 : APPLICANT: Anne Mette Buhl Hertz  
 : APPLICANT: Jorgen Kjems  
 : TITLE OF INVENTION: Methods and kits for diagnosing and  
 : FILE REFERENCE: P34546US01  
 : CURRENT APPLICATION NUMBER: US/10/535,500A  
 : PRIOR FILING DATE: 2005-05-18  
 : PRIOR APPLICATION NUMBER: DK/PA 200201792  
 : NUMBER OF SEQ ID NOS: 43  
 : SOFTWARE: FastSeq for Windows Version 4.0  
 : SEQ ID NO 13  
 : LENGTH: 305  
 : TYPE: DNA  
 : ORGANISM: Homo sapiens  
 : US-10-535-500A-13

Query Match 3.2%; Score 305; DB 1; Length 305;  
 Best Local Similarity 100.0%; Pred. No. 0.68;  
 Matches 305; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATTGGAATTGGTGAACCTTAGTAAAGCAGACGGCTCTCACCATAAGGGCAGGCATCATCC 60  
 Db 1 ATTGGAATTGGTGAACCTTAGTAAAGCAGACGGCTCTCACCATAAGGGCAGGCATCATCC 60  
 Qy 61 AATCTGTGCGAAAGCTTGAATAAAACAAAGAGGAGGAGGAAAAATTTGCTTTCTTCT 120  
 Db 61 AATCTGTGCGAAAGCTTGAATAAAACAAAGAGGAGGAGGAAAAATTTGCTTTCTTCT 120  
 Qy 121 TGATCTAGTATATCATCTCTGCTGCTTGGATGTGAGTGGGCTTCAGACTTAAACCA 180  
 Db 121 TGATCTAGTATATCATCTCTGCTGCTTGGATGTGAGTGGGCTTCAGACTTAAACCA 180  
 Qy 181 GGAGTTACACCTTTGGCTTCCCTGCTCAGTTCTTGGACTTGGACTGAATTACACTG 240  
 Db 181 GGAGTTACACCTTTGGCTTCCCTGCTCAGTTCTTGGACTTGGACTGAATTACACTG 240  
 Qy 241 CCAGGTTTCTCTGGTCTCCAGCTTGCAGATGCAGATCATGGGACTCTTGGCTCCATA 300  
 Db 241 CCAGGTTTCTCTGGTCTCCAGCTTGCAGATGCAGATCATGGGACTCTTGGCTCCATA 300  
 Qy 301 ATTGT 305  
 Db 301 ATTGT 305

RESULT 15

US-10-535-500A-5/c  
 : Sequence 5, Application US/10535500A  
 : GENERAL INFORMATION:  
 : APPLICANT: Rigshospitalet  
 : APPLICANT: Henrik Leffers  
 : APPLICANT: Anne Mette Buhl Hertz  
 : APPLICANT: Jorgen Kjems  
 : TITLE OF INVENTION: Methods and kits for diagnosing and  
 : FILE REFERENCE: P34546US01  
 : CURRENT APPLICATION NUMBER: US/10/535,500A  
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